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FIGURE 2061

MIKGVTLGFHYKMRSVYAHFPINVVIQENGLVEIRNFLGKKYIRRVWMRAGVVCSVSQAQKDELILEGNDIELV
SNSAALIQQATTVKKKDIREFLDGIYVSEKGTGQQADE

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FIGURE 2062

GCTGTCGGTCCACGCCGCCCGTCGCGCTGCCCCGCCGCTCGGCGTCGGCCGCCGCCATGGGAGTGCACGTGGAAA
CCATCTCCCCAGGAGACTGGCGCACCTTCCCGAAGCGCAGCCAGACCTGCGTGATGCACTACACCGGGATGCTTG
AAGATGGAAAGAAATTTGATTCTCCCGGGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGA
TCCGAGGCTGGGAAGAAGGGGTTGTCCAGATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATG
CCTATGGTGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAC
TGGAATGAACAGGAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGA
CGTGTGCACATAAATCCATATGGAGCTTTTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCCAACTGAA
TTATTCTCCAAGTTGAGAGATGTCCTTGGGTTAAATTAAAAGCCCTACCTAAAACCTGAGGTGGGGATGGGGAGAG
GCTTTGCC

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FIGURE 2063

MGVHVETISPGDWRTFFPKRSQTCVMHYTGMLEDGKKFDSSDRNKPFKFM LGKQEVIRGWEEGVVQMSVGQRAKL
TISPDYAYGATGHFGIIPPHATLVFDVELLKLE

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FIGURE 2064

CGCCTTGGCCATTGTCAGCCACACAACCCAGGACCTCCAATGGGGACGCCCCTGAGGATCCTAGTGGTTGCTC
TTTTCTTGTCTCTTTCTTTCCCCCAGTCTTTCCTTGTCTATCATGGGCAATTTCCCGCCTTCCATCCCTCTT
TCTTCTGTCTGGCTTGTGTCTCAGAAACCTCAAACCTTTACCTTGCACCCAATCTAAAGGCTAAACGTCTAA
TTTTTTTCTGTAACACGTCCTGGCCCCAGTATAAATTAGAAAATGGCGCTCAGTGGCCAGAAAACAGCACTTCCA
ATTTCTCTATTTTGTGGGACTTAGACAACCTTCTATGGAAAAATGGGCAATGGGTCTGAGGTACCCTACTTCCAG
GCATTTTTTACATACGATCTCTCCCTAGCCTATGCTTCCAATGTAATCCATCCCCAATTTTCCTTATTTCCCTTC
TGTCTACCCCTCCTTCTTCCACTGGCGATGCTGACTCCTCTTGTCTGTTGACCCCTCCGATCTTCTCCCCCAC
CACCTATCCGAACCTGCTTCTAATTCTCCCCCAGAACCTATTTCTACCCACAATCCACCCTCTTATGCCCTCCC
ATTACCACCCTTCTTCACATCCTCTATGGCTTACAGTTTGGGCCTGCGACCAACCCCCAGGCCCTGCCTAGCAA
TTTCCCCTCGGAGAGGTGGCAGGAACCAAAGGAATAGTTCGGGTTTCAGGTCCCTTTCTCCCTGTTTCGACCTTTCC
CAAATTAGTGAACATCTAGGCTCTTTCCCATCTGACCCACCAAATATATACGAGAATTCCAATACTTAACCCAG
TCCTATAATCTTACTTGAATGACTTAAATGTCATCCTTACCTCTACCCTCGCTCCTGAGGAGTGAGAGTGGGT
TGGATCCTAGCTCAATCTTAGGCTGATAACCGCCGGTGCCGTAAGCCTGGCCTCCAGTAAGGTGCTAGGGCAGTA
CCCTGTGAAGACCCCGATGGACTTACCAGGCCCTGGGACCCATGCATAGCCAGGCGGGACTACATGATCTCTTG
CCTAGTTAAAGGGCTTCAGAAGGCTGCATATAAAGCCGTCGAATTATGACAACTAAAAACAAAAACAAAAACAA
AAAAAACCACTCAGAACAAAGATAAAAAATCCAGCTCAGTTTATGGCCTGTCTACCTGCCACCCTCAGGCGATATA
CAGCACTAGACCCTGAAGGGATAGAAGGCCGCTTATTCTTAACATGCATTTTATTACCCAGTCAGTTTCTGACA
GTAGAAAGAACTTCAAAAATTAGAGTCTGGCTCTCAGATCCCACAACAGGAATTAATCAACCTCGCCTTCAAGG
TGTTCAATAATAGGGAAGAGACTGCCCGGCGACAGCGCATTTCAGAACTACAGATGCTTGCCTCCGCCATAAGAC
AAACCCAGCTGCACTGCCTACCTGCAAGAACTTCAAGGCATCTAAACGCAACATCCAACAGCCCCTCTGGGACT
TTGCTTCAAGCGATGAAAACCTGGCCACTGGGCAAGGAATGCCTGCAGCCTGGGATTCTCTTAAGCCATGCCCC
GCCTGTGCGTCCCTCACTGGAAGTCTGACTGCCCCGACTCTCATCGCCACTTCCGGAGCTCCTGGAGCTCAAACCC
AAAGCTCCCCACCGACTCCTTCCCAGATCTCCTCGGCTTGGCGGCTGAAGACTGACGCTGCCCGAACGTCTCGGA
GGCCCCTTAGACAATCGCGGATGCCGAGCTTCGGGTAACCTTAGGGTGGAGGCATAAAAAGACAGGAATGTAAG
GTCTCTGAGCAGGCGGCGCCATGGTCAAGCCATCGTGACCCCTGTGACTCACACGTACACATCCAGAAGGTCTC
CTGGAGCCAGAAAGTCTGGGACGACAGGAAAACCAAAAAGAAGAAAA

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FIGURE 2065

GGGCCTGGACGCTTTGGCAACCGCTACTCCCGGGGGTGCTTTTTCTGCAGGGACGAAGTGCCACCTATGCTAGTG
GCGGGTCTGGAAGCCTAGAGGGGAACCAGGCTGCAGAGCCGGGCCAAGGGATTAGCGGCGGGCGGGCATGGC
CTGGACTGCGCGGGACCGCGGGGCCCTGGGGCTGCTGCTGTTGGGGCTCTGCTTGTGCGCGGGCTCAAAGAGGTCC
CCCGGGTGAGCAGGGTCTCTCCCGGGCCTCCGGGCCCCCTGGAGTTCCAGGCATCGATGGCATCGACGGTGACCG
AGGTCTCTAAGGGCCCCCGGGCCCCCGGGTCTGCAGGTGAACCGGGAAAGCCAGGAGCTCCAGGCAAGCCTGG
CACACCTGGCGCTGATGGATTAACAGGACCTGATGGATCCCTGGCTCCATTGGGTCAAAGGGACAAAAAGGAGA
ACCTGGTGTGCTGATCGCTGGATTTCCAGGCCGTGGTATTCTGGACCCCCCTGGTCTCTGGGACAGCAGG
ACTCCCTGGAGAGCTTGGCCGTGTAGGACCTGTTGGTGACCCTGGGAGAAGAGGACCACCTGGCCCCCTGGCCC
CCCAGGACCCAGAGGAACAATTGGCTTTTCATGATGGAGATCCATTGTGTCCCAATGCCTGTCCACCAGGTGCTC
AGGATATCCAGGCCTACCAGGCATGAGGGGTCATAAAGGGGCTAAAGGAGAAATTGGTGAACCAGGAAGACAAGG
ACACAAGGGTGAAGAAGGTGACCAGGGAGAACTCGGAGAAGTTGGAGCTCAAGGACCTCCAGGAGCCCAGGGTTT
GCGAGGCATCACCGGCATAGTTGGGGACAAAGGGGAAAAAGGTGCTCGGGGCTTAGATGGTGAACCTGGGCCTCA
GGGTCTTCTGGTGCACCTGGTGATCAAGGACAGCGAGGACCTCCAGGAGAAGCAGGTCCCAAAGGAGATAGAGG
GGCTGAAGGTGCTAGAGGAATTCCTGGTCTCCCTGGGCCCAAAGGAGACACGGGTTTGCCAGGTGTGGATGGCCG
TGATGGGATCCCTGGAATGCCTGGAACAAAGGGTGAACCAGGAAAACCTGGGCCCTCCTGGTGTGACAGGATTGCA
GGGGTTACCAGGTGTACCTGGAATTCCTGGTGCAAAGGGTGTGTGCTGGTGAAAAGGGTAGCACAGGTGCTCCAGG
GAAGCCTGGTCAGATGGGAAATTCAGGCAAACCGGGCCAACAGGGGCCTCCAGGAGAGGTGGGACCCCGAGGACC
CCAGGGGCTTCTGGCAGTAGAGGAGAATTAGGACCAGTGGGATCCCCAGGCCTACCAGGTAAACTGGGTTCTCT
GGGTAGCCCTGGCCTCCCTGGCTTGCTGGGCCCCCTGGACTTCTTGAATGAAAGGTGACAGGGGTGTAGTCGG
TGAACCGGGTCCAAAGGGTGAACAGGGTGCCTCTGGTGAAGAAGGTGAAGCAGGAGAAAGGGGGGAACTTGGAGA
TATAGGATTACCTGGCCCAAAGGGATCTGCAGGTAATCCTGGGGAACCTGGCTTGAGAGGGCCTGAGGGAAGTCG
GGGGCTTCTGGAGTGGAAGGACCAAGAGGACCACCTGGACCCCGGGGTGTGCAGGGAGAACAGGGTGCCACCGG
CCTGCCTGGTGTCCAGGGCCCTCCGGGTAGAGCACCGACAGATCAGCACATTAAGCAGGTTTGCATGAGAGTCAT
ACAAGAACATTTGCTGAGATGGCTGCCAGTCTTAAGCGTCCAGACTCAGGTGCCACTGGGCTTCTTGAAGGCC
TGGCCCTCCTGGTCCCCCGGCCCTCCTGGAGAGAATGGTTTTCCAGGCCAGATGGGAATTCGTGGCCTTCCGGG
CATTAAAGGGGCCCCCTGGTGTCTTGGTTTGAGGGGACCTAAAGGTGACTTGGGAGAAAAGGGGGAGCGTGCCCC
TCCAGGAAGAGGTCCCAACGGTTTGCTGGAGCTATAGGTCTCCAGGTGACCCAGGCCCTGCCAGCTATGGCAG
AAATGGCCGAGACGGTGAGCGAGGCCCCCAGGGGTGGCAGGAATTCCTGGAGTGCCTGGACCCCGGGACCTCC
TGGGCTTCCCGGTTTCTGTGAGCCAGCCTCCTGCACCATGCAGGCTGGTCAGCGAGCATTTAACAAGGGCCTGA
CCCTTGAAAGGCTTACTGCTGCATGGCTGTCTGCATGAACCACGCCTGGTGAAGGAGCCTGGGTGAGAAACACCA
TCCAAAGCTGGGGCAAAGATGATTACCTTCAGCATGATTACAATGTATTACCTTCAGTATGATTACAGAAGTCCT
ACTTGACAAATCACATATAGAAGACGGTGCTATTACAGTAAGTTCTCTTTCCCTTGGAGGGAAGACAGCAG
AGTCATCAGTTAAAAAAGAAAGAAACCAACACCTCCCTTGAATAAATTTATACTCCTGTTCCAGGATCT
TGAGCTTTAGTGTGCTATACCTATGTGTCTTATCGTGGGCCACTGTGCCAATAAACAAAAACAACTGTTTGGTTT
ACCTC

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FIGURE 2066

GGCCGCGCCCTGCAGATTGTCTCTTGTGGCGTAAGTTTTTTTGACCGTCACTCGTGTCTCAGCTTCAAAGTCAGATA
GATTTTTCTCCCAGCATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTGCGGGTTTCCTTCACCAAGCAGCAATTT
CCGTTGGCAGCGTTGAGCAGTGACAGCGCGCGCCCGGACTCCGCACCTCGACGTGATAGTCATTGGTGGAGGA
CATGCCGGGACTGAGGCAGCCACCGCCGCCGCTCGGTGCGGCTCTCGGACTCTGCTCCTCACTCACC CGTGGAC
ACGATCGGTGAGATGTCATGTAATCCTTCCTTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAGTAGATGCC
TTGGATGGCCTGTGTTCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGCGTAAGGGACCA
GCTGTGTGGGGTCTGAGAGCTCAGATTGATAGGAACTCTACAAAAGAACATGCAGAAAGAAATCTTGAATACA
CCACTGCTTACTGTTTCTGAGGGGAGCTGTAGAAGATCTTATCTTACAGAACAGAGCCTGAACACACTGGGAAA
TGCCGTGTCTGAGTGGGGTTGTTTTGGTGGATGGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACA
TTTCTGAGAGGCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA
TTGGCTCAGACACTGGAGAAGTTAGGGTTTGTGGTGGGAAGGTTGAAGACTGGGACTCCACCCCGAATTGCCAAA
GAGTCCATTAATTTCTAGTATTCTAAACAAGCATATACCGGACAATCCATCCATACCATTAGCTTTACCAATGAG
ACAGTATGGATTAAGCCAGAAGATCAGCTGCCATGTTACTTGACTCACACCAACCCTAGAGTGGATGAGATTGTC
CTTAAGAACCTTACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA
AAAGTTTTGCGTTTTTCCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGATTCTGACCTTATCTAC
CCACAGGGGTATCTATGACGCTACCAGCTGAGTTACAAGAGAAAATGATCACATGCATCAGAGGCTTGGAGAAA
GCTAAAGTGATTGAGCCAGACGGAGTTTGTCTTGTGGCCAGGATGGAGTGAATGGTGCGATCTCGGCTCAC
CACAACCTCCCCCTGCCAGGCTACGGTGTTCAGTATGATTACTTAGATCCCCGTCAGATCACCCTTCTTTGGAG
ACTCATTGGTTCAACGACTCTTCTTTGCTGGACAGATCAATGGCACCCTGTTATGAGGAAGCTGCAGCTCAA
GGTGTGATAGCCGGAATCAACGCCAGTCTTCGGGTGAGTCGCAAGCCTCCCTTTGTGGTTAGCCGAACAGAAGST
TACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCACCAGTGAACCATACCGCATGTTTACCAGCCGAGTA
GAGTTCGGTTTGTCTGCTGCGCCCTGATAATGCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGT
GTGTCCCAACAACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTTGAAATCT
ATTGAGTTTTTGAGCTCTAAATGGAAAAAATTAATCCCAGAGGCTTCTATAAGTACTAGTAGAAGCTGCCTGTC
AGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTCAATTAGCCAAGGCTGTTCCAGAGCCCTTGAAG
AAGTATACTAAATGTAGAGAGCTGGCTGAAAGACTGAAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAA
CTACAAGAAATAAAGGGAGTTCAGCAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTATCAGG
GATGTGTCTTTGTCCATGAAGTTCGAGAGAACTACATTTTAGTCTCCACAGACGATCGGGGCTGCTAGTCGC
ATACCCGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTGTGAAGACCACTCAACGAAGACAGTCGGCT
ATGAATGAATCATCCAAGACTGATCAATACTTATGTGATGCAGACAGACTTCAAGAGAGAGGTTATAGCTTTCA
ATTCATAAAAGATTTTTAAAGAGCATATAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATTTAGCA
CATGTTAAATAGCTTTATAGGTTACTATGGGTTTGCCATTAAATTTCTGAGTGGGACAGAAATTATAATTGTGC
TTTTTCGTGTATATGAAAAAAGTAGTCGTAAACAATTTGTACTCTTTCTTTAAGGAGCTGTAATACAAATAACTT
TGTGCAGTGTTCATCAAAGAGAGAGACAGTGAACCTAAAAGTGAACCTGGAATAAACTCAACATGCAGATTGTC
CTACTCATAGGGACTTTGCCTATTAAAGTCTACCAAATTAAGTCTTATCATTACGCGTGTGTTTGTAGAGTTAATA
ATCTTTTGCTTTGGTTATATACTAGGCTAGGAAGCAATATCAAAGCCCTTAAATTTCTCAAGACTAAAGACTTGAGATT
ATATAAAATATCCAGAATCATTAGCTAATACTATTGGAATATAGTATGTAGGGTGAAAGTTGACAGAAATCTG
TACTTCTCAGGAAATCCTCACTGGTAATTGTTTGAACATTAATGAAAGCCCTATAAAATAGAAAGATTGGAAG
TCACCATGTTTCTTATTATCCACAGTGTGGATGGATACTTATTTGGTGACCTAGTTATGGGAGAATTGAGTAAC
GTTAGTTATTTTATATCATACCATAAAAAATATTTTC

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FIGURE 2067

MFYFRGCGRWVAVSFTKQQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAARCGSRTLLLTHRVDITIGQM
SCNPSFGGIGKGHLMREVDALDGLCSRICDQSGVHYKVLNRRKGPVWGLRAQIDRKLYKQNMQKEILNTPLLTV
QEGAVEDLILTEPEPEHTGKCRVSGVVLVDGSTVYAESVILTTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTL
EKLGFVVGRKLTGTPPRIAKESINFSILNKHIPDNPSIPFSFTNETVWIKPEDQLPCYLTHTNPRVDEIVLKNLH
LNSHVKETTRGPRYCPSIESKVLRFNRLHQVWLEPEGMDSLIYPQGLSMTLPAELQEKMITCIRGLEKAKVIO
PDGVLLLLPRMECNGAISAHNNLPLPGYGVQYDYLDPQITPSLETHLVQRLFFAQINGTTGYEEAAAQGVIA
INASLRVSRKPPFVVSRTGYIGVLIDDLTTLGTSEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQR
YERACWMKSSLEEGISVLKSIEFLSSKWKLIPEASISTSRSLPVRALDVLKYEVDMDSLAKAVPEPLKKYTKC
RELAERLKIEATYESVLFHQLQEIKGVQQDEALQLPKDLTYLTIRDVSLSHEVREKLHFSRPQTIGAASRIPGVT
PAAIINLLRFVKTTRRQSAMNESSKTDQYLCADRLQEREL

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FIGURE 2068

CTCATTTAACTTTTTTAATGGGTCTCAAATAATTCTGTGACAAATTTTGGTCAAGTTGTTTCCATTAAAAAGTACT
GATTTTAAAACTAATAACTTTAAACTGCCACACGCAAAAAAGAAAACCAAAGTGGTCCACAAAACATTCTCCTT
TCCTTCTGAAGGTTTTACGATGCATTGTTATCATTAAACAGTCTTTTACTACTAACTTAAATGGCCAATTGAA
CAAACAGTTCAGACCGTTCTTCCACCACTGATTAAGAGTGGGGTGGCAGGTATTAGGGATAATATTCATTAG
CCTTCTGAGCTTTCTGGGCAGACTTGGTGACCTTGCCAGCTCCAGCAGCCTTCTTGCTCCACTGCTTTGATGACAC
CCACCGCAACTGTCTGTCTCATATCAGAACAGCAAAGCGACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACAC
ACATGGGCTTGCCAGGAACCATATCAACAATGGCAGCATCACCAGACTTCAAGAATTTAGGGCCATCTTCCAGCT
TTTTACCAGAACGGCGATCAATCTTTTCCCTTCACTCAGCAAACCTTGCATGCAATGTGAGCCGTGTGGCAATCCA
ATACAGGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTTCAAGATAATCACCTGAGCAGTGAAGCCAGCTGCTT
CCATTGGTGGGTCAATTTTTGCTGTCAACAGCAACGTTGCCACGACGAACATCCTTGACAGACATTCTTGACAT
TGAAGCCACATTGTCCCCAGGAAGAGCTTCACTCAAAGCTTCATGGTGCATTTGACAGATTTTACTTCCGTTG
TAACGTTGACTGGAGCAAAGGTGACCACCATAACGGGTTTGAAGAACACCAAGTCTCCACTCGGCCAACAGGAACAG
TACCAATACCACCAATTTTGTAGACATCCTGGAGAGGCAAGGCGCAAGGGCTTGTGAGTTGGACGAGTTGGTGGTA
GGATGCAGTCCAGAGCCTCAAGCAGCGTGGTTCCACTGGCATTGCCATCCTTACGGGTGACTTTCCATCCCTTGA
ACCAAGGCATGTTAGCACTTGGCTCCAGCATGTTGTCAACATTCCAACAGAAATTGGCACAATGCTACTGTGT
CGGGGTTGTAGCCAATTTTCTTAATGTAAGTGCTGACTTCCCTTAACAATTTCTCATATCTCTCTGGCTGTAGG
GTGGCTCAGTGAATCCATTTTGTTAACACCGACAATTAGTTGTTTACACCCAGTGTGTAAGCCAGAAGGGCAT
GCTCTCGGGTCTGCCCATTTCTTGAGATACCAGCTTCAAATTCACCAACACCAGCAGCAACAATCAGGACAGCAC
AGTCAACCTGAGATGTCCTTGTAATCATGTTTTTGATAAAGTCTCTGTGTCTTGGGGCATCAATGATAGTCACAT
AGTACTTGCTGGTCTCAAATTTCCACAAGGAGATATCAATGGTGATACCAGGTTACGCTCAGCTTTCAGTTTTAT
CCAAGACCCAGGCATACTTGAAGGAGCCCTTTCCCATCTCAGCAGCCTCCTTCTCAAATTTTTCAATGGTTCTTT
TGTCGATGCCACCGCATTTATAGATCAGATGGCCAGTAGTGGTGGACTTGCCCGAATCTACGTGTCCAATGACGA
CAATGTTGATATGAGTCTTTTCTTTCCCATTTTGGCTTTTAGGGGTAGTTTTACGACACCTGTGTTCTGGCGG
CAAACCGG

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FIGURE 2069

ACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATA
TCAACATTGTCGTCATTGGACACGTAGATTGCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCCGGTG
GCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCCT
GGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCA
GCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTC
AGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGA
CCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTAAACAAAATGGATTCCA
CTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCT
ACAACCCCGACACAGTAGCATTGTGCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACA
TGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTGG
ACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCCTTGCCTCTCCAGGATGTCTACAAAATTGGTG
GTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAG
TCAACGTTACAACGGAAGTAAATCTGTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATG
TGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGCTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACC
CACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATG
CCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTT
CTGGTAAAAAGCTGGAAGATGGCCCTAAATTTCTGAAGTCTGGTGTGCTGCCATTGTTGATATGGTTCTTGGCA
AGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTCTGTGATATGAGACAGACAG
TTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAAG
CTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAGAACGGTCTCAG
AACTGT

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FIGURE 2070

CCGGCTCGCGCCCTCCGGGCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCCGTCCCAGCCCAGCTCCGGGGAAACG
CGAGCCCGCATGCCTGGGGGGTGCTCCCGGGGCCCCGCCGCCGGGGACGGGCGTCTGCGGCTGGCGCGACTAGCG
CTGGTACTCCTGGGCTGGGTCTCCTCGTCTTCTCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGCGCCGTTT
CTGGCTTCGCCCGTGTCCGCCAGCCCCCGCTGCCGGACAGTGCCCCGCGCTGTGCGAGTGCTCCGAGGCAGCG
CGCACAGTCAAGTGCGTTAACCGCAATCTGACCGAGGTGCCACGGACCTGCCCGCTACGTGCGCAACCTCTTC
CTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCGCCGGCCGCGCTGGCGGAGCTGGCCGCG
CTCAACCTCAGCGGCAGCCGCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCATCTGCCAGCCTGCCAGCTC
GACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTTCTCGGGCAGCAATGCCAGCGTCTCGCCCCC
AGTCCCCCTGTGGAACCTGATCCTGAACCACATCGTGCCCCCTGAAGATGAGCGGCAGAACCGGAGCTTCGAGGGC
ATGGTGGTGGCGGCCCTGCTGGCGGGCCGTGCACTGCAGGGGCTCCGCCGCTTGAGCTGGCCAGCAACCACTTC
CTTTACCTGCCCGGGATGTGCTGGCCCAACTGCCAGCCTCAGGCACCTGGACTTAAGTAATAATTCTGCTGGT
AGCCTGACCTACGTGTCTTCCGCAACCTGACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGGTC
CTTCACAATGGCACCCCTGGCTGAGTTGCAAGGTCTACCCACATTAGGGTTTTCTGAGACAACAATCCCTGGGTC
TGCGACTGCCACATGGCAGACATGGTGACCTGGCTCAAGGAAACAGAGGTAGTGAGGGCAAAGACCGGCTCACC
TGTGCATATCCGGAAAAATGAGGAATCGGGTCCTCTTGAACTCAACAGTGCTGACCTGGACTGTGACCCGATT
CTTCCCCCATCCCTGCAAACCTCTTATGTCTTCTGGGTATTGTTTTAGCCCTGATAGGCGCTATTTTCTCCTG
GTTTTGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAA
GGGTATCATTACAGATATGAAATCAATGCGGACCCAGATTAAACAAACCTCAGTTCTAACTCGGATGTCTGAGAA
ATATTAGAGGACAGACCAAGGACAACCTCTGCATGAGATGTAGACTTAAGCTTTATCCCTACTAGGCTTGCTCCAC
TTTCATCCTCCACTATAGATACAACGGACTTTGACTAAAAGCAGTGAAGGGGATTGCTTCCTTGTTATGTAAAG
TTTCTCGGTGTGTCTGTAAATGTAAGACGATGAACAGTTGTGTATAGTGTTTTACCCTCTTCTTTTCTTGAA
CTCCTCAACACGTATGGAGGGATTTTCAGGTTTCAGCATGAACATGGGCTTCTTGCTGTCTGTCTCTCTCAG
TACAGTTCAAGGTGTAGCAAGTGTACCCACACAGATAGCATTCAACAAAAGCTGCCTCAACTTTTTCGAGAAAAA
CTGCAGACGTTAGCAGGCTCTTCAAAATAACTCCATGGTGACAGAGCACCTGCATCCAAGAGCATGCTTACAT
TTTACTGTTCTGCATATTACAAAAATAACTTGCAACTTCATAACTTCTTTGACAAAGTAAATTACTTTTTTGAT
TGCAGTTTATATGAAAATGTACTGATTTTTTTTAATAAACTGCATCGAGATCCAACCGACTGAATTGTTAAAAA
AAAAAAAAAATAAGATTCTTAAAGAA

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FIGURE 2071

MPGGCSRGPAAAGDGRRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSEAARTV
KCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAFAFEHLPSLRQLDLS
HNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRELEASNHFLYL
PRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLES LHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWVDC
HMADMVTWLKETEVVQGDRLTCAYPEKMRNRVLELNSADLDCDPIPPSLQTSYVFLGIVLALIGAIFLLVLY
LNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

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FIGURE 2072

CCTGGAGGCCGGCTTGGCGGCCAGGCGCAAGTTCGCGACGTCACCCGATCCGACCCTGGTACCCGGAGCGGCCCT
GGCGCGGCTGTTCGGCTGGCACCAGCTCCCTGCAGGAAGAGTGGAGAGGTTGTTCCCGCGGGGAGCGGGTACCGG
CCGCATCCCGGCCGGACCAGGGAGCCTGGGCGCCGGCAGTTCGGCTGCTGGTGTTTAATGTGTGTTTTTGGTCTT
CTCCCCAAGCAATGGAAACAGAGTTGCTGCTTCAGTGGTAGTAGTACTTGCAATCAAGTAACACTAACTTAAAA
TCTACTTTAGACACAGTGGGCGATAGTATGAAAGAACCAAGAAGGATTTCGGCTGTCCTGGAGCTGATAATGCTG
CAAAACAAGCCATGATGAGATGTTCTCCACATTTACAAAATCCGGGAGACTGCGGATGGGCTGTGCCTGGAGGTG
GAGGGGAAATTGTAAGTAGGACAGAGGGTAACATTGATGACTTGCTCATTGGTGGAAATGCCTCCGCTGAAGGC
ACTGAAAGCGAAGGCAAACTTGAAGAACAGAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAGAACAA
ATCAAAACACATCCTTGCTAATTTCAAAGCTACCACTTCTTTATTGGTGAAAACATGAATCCAGATGGCATGGTT
GCTCCACAGGACTACCAAATAGAAGTTCAAGCTTCGGATGACACTGAAAGGTGTTTCAGGAGATTTTGGTTCCACT
AGAAATAATGAAAATTTATGCCAAGAATAG

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FIGURE 2073

MCVFGLLPKQWKQSCCFSGSSTCNSSNTNLKSTLDTVGDSMKEPRRISAVLELIMLQTSHEMFSHIYKIRETAD
GLCLEVEGKLVSRTEGNIDDLIGGNASAEGTESEGLEEQRPERVKPFMTGAAEQIKHILANFKSYHFFIGENM
NPDGMVAPQDYQIEVQASDDTERCSGDFGSTRNNENLCQE

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FIGURE 2074

AGAGAGGAGCCGACTCGGCAGGGACTGGGGGACCGGGCCGAGAGTGCAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGGAAGGGAAGG
GAAGGGAAGGGGGGGTCACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG
GTTTGCTGCCAGCGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTTCCCGCAACCCGATACCATCGGACAGGATTCTCCGCTCAGCCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTACAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGAAAAGTGCCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAAG
GCACTCTTGGAAGAAGCAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTATTAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACTTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAAAACATATTGGTGTCTGCATCTCAGTTGCCAACAAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAACAGAGGCTTTTGCTTTCTTGAATATGAAGATCACAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGCTCGGGGGAATGTTGGAAGTGTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCAATTTGATGAGCGAGATGGTGTCTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGAGGGAGAAAAAT
ATTGAAATTTGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAAGAAAGCTCAGAGGCAAGCAGCAAAAAAT
CAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCGTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTGAGGTGCGAGAGGAGGTGCCAACAAACAAGAGGCCGCGGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACTATGTTTACAAATCTGAAAACCAGGAGTTTATCAGGATACTTTGGGCAACAGTGGGAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAACAATCCGCTTGGACACGAAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAACTGATTTTATTTTAAATTTTTCATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCAACGATGTTTCCA
GTAGTGTTTAGATTTGGTGTCTTCAAAGGTAGTTGATTAAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACACAAGTCTATTTTTTAAATTTAGAAGTT
TGACCTAATTTGGGTTTTCAAAACCATTTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 2075

ATGCGGTGCGGCTTTCGCCGCGCTATTGCTTGCCAGCTTTCAGAGTGTGAATCTTCCACCAGAAACTTGATC
ACATCAATATCTGCAGTTCCAATTTCCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTCTGTGGATTCTTTATTG
GAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGCTAAGATGTGAT
ACAGTGGTGAGTGAAATCAGTACTGGTCAAAGGACTGTAAATTTCAAAATAAACAGAGAGCTCTTAACAAAGACA
GTGCTACAACAAGTAATTGAAGATGGCTCAAATATGGATTAAAAAGTGAACCTTTCTCTGGACTTCCCAGAAG
AAGATTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTTTCATGTTGGACATTTGCGTTCTACCATCATA
GGAAATTTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGTAATAAGAATAAATTACCTTGGCGATTGGGGC
ATGCAGTTTGGTCTTCTGGGAAGTGGCTTCCAGCTGTTTGGCTATGAGGAAAACTGCAGTCCAATCCTCTACAG
CATCTCTTTGAAGTTTATGTACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGATAGCAAAAGCAGCACAGGAG
TTCTTCCAACGATTGGAAGTGGGCGAIGTGCAAGCACTTTCAGTGTGGCAAAAATTTCTGGGACTTGAGCATTGAA
GAGTACATTCTGGGTTTACAAGCGTCTGGGAGTATATTTTGATGAATATTCAGGAGAATCATTTTATCGTGAAAAA
TCTCAAGAGGTCTTAAAGTTGCTGGAGAGTAAAGGACTCCTACTGAGAACAATAAAAGGAACGGCTGTAGTAGAT
CTCTCTGGGAATGGCGACCCCTCCTCAATTTGTACTGTAATGCGAAGTGATGGGACTTCTCTCTATGCAACCAGA
GATCTTGCAGCTGCTATAGATCGAATGGACAAGTATAATTTTGATACAATGATATATGTGACAGATAAAGGACAA
AAAAAGCATTTTCAGCAAGTATTCCAAATGCTGAAGATCATGGGATATGACTGGGCAGAAAGGTGCCAGCAGTG
CCCTTTGGAGTAGTACAGGGAATGAAGACTCGAAGAGGAGATGTCACCTTTCCTGGAAGATGTTTTAAATGAGATT
CAATTAAGGATGCTACAGAACATGGCTTCAATTAAGACAACATAAAGAACTCAAGAACCCACAAGAGACTGCAGAG
AGGGTCGGGCTCGCAGCACTCATTATTTCAGGACTTCAAAGGTTTACTCTTATCTGACTACAAGTTCAGCTGGGAT
CGTGTTCCTCAGAGTCGCGGGGACACAGGAGTCTTCTACAGTACACACACGCGCCCTCCACAGTTTGGAAGAG
ACTTTTGGATGTGGGTACCTGAATGACTTCAACACTGCTTGTTTACAAGAGCCACAGTCTGTTTCAATTCTTCAG
CATCTTCTCAGGTTTCGACGAGGTGCTTTATAAATCATCTCAGGACTTTCACCCAGGCATATCGTCAGTTACCTT
CTAACTTTAAGTCATCTTGACGCTGTGGCACACAAAACACTACAAATAAAAGATAGTCCTCCTGAAGTGGCTGGG
GCCAGACTTCATCTTTTCAAAGCTGTCCGTTCTGTCCTAGCCAATGGAATGAACTTCTTGGAATAACACCTGTA
TGTAGGATGTAA

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FIGURE 2076

MACGFRRAIACQLSRVLNLPPENLITSISAVPISQKEEVADFQLSVDSLLEKDNDHSRPDIQVQAKRLAEKLRC
TVVSEISTGQRTVNFKINRELLTKTVLQQVIEDGSKYGLKSELFSGLPQKKIVVEFSSPNVAKKFHVGHLRSTII
GNFIANLKEALGHQVIRINYLGDWGMQFGLLGTGFQLFGYEEKLQSNPLQHLFEVYVQVNKEAADDKSVAKAAQE
FFQRLELGDVQALSLWQKFRDLSIEEYIRVYKRLGVYFDEYSGESFYREKSQEVLLLESKGLLLRTIKGTAVVD
LSGNGDPSSICTVMRSDGTSYATRDAAAIDRMDKYNFDTMIYVTDKGQKKHFQQVFQMLKIMGYDWAERCQHV
PFGVVQGMKTRRGDVTFLEDVLNEIQLRMLQNMASIKTTKELKNPQETAERVGLAALIIQDFKGLLLSDYKFSWD
RVFQSRGDTGVFLQYTHARLHSLEETFGCCYLNDFNACLQEPQSVSILQHLLRFDEVLYKSSQDFQPRHIVSYL
LTLSHLA AVAHKTLQIKDSPPEVAGARLHLFKAVRSVLANGMKLLGITPVCRM

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FIGURE 2077

TTTTTTTTTTTTTTGTTCCCTGAATTATTTAAGTTTCTTATAGATTCTGGATATTAGACCTTCTTAGATGCATA
GCTTATGAATATTTTCTCCCATTTATTTAGGTTGTAGGGAAAGGGAGAGCTTTTGATTTTTTTAAGCATTACAGA
TAATGTTGAAGTCACTGATATATATTTGTTTGACTGCATTCCCTACCCTGCTTCCCTAGAGAGAACTGATCTCAT
GATGCAAATGATTTATTTTACGAATCAGTTGCTTTGTGTTTGTCTTTGTTTTGTATTTTTTTTCCCTAC
CCAGTGAAAAGGATAAATGGCATTGTCCATCTCTTAATGAACACTGAGTGTTAAGAAGAATATTCTTCTTTTT
CTCATGTTGAAACTCAAATTACAACATTTAAAAAATATGTCATTTGGAGGTCAGTGGAGAGGTTTGAATTAGAAG
CATGTATTTGGAGTAGTAGAGGAAGCATTGTAGAAGAGGTAAAGAGACCTGGGCTTTTTTCTCAGTCTGTTTTT
TTTGAGTAGGATTTTAAAGGAGACATTTAGCTTGCCAGACATCAGTTTTCATGTCTATAAAATAAGGTGGCTAG
TATAAGAGGAAGAATTTTTTGAGACTAGGTCTTGCTCTGTCAACCCAGACTGGAGTGCAGTGGCATGATCTCGGCT
CACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCCTCGTGCCTAAGCCTCCCGAGTAGCTGGGCTTACGGGCACA
TGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTCCATGTTGGCCAGGCTGGTCTCAA
CTCCTGACCTTAAGTGGTCCACTTGCTCGGCCTCCCAAAGTGCTGGGATCTGTGCCAGACAGAAGAGGAAGAA
TTTTATAAGATGATAAGAAAAACATTCTGAATAAATACTAGGTTATTTCTCATTTTCTTGCTTTAATTTTGTTT
TTTATTTATTTATTTATTTTATTTTACTTTTTTGAGACAGAGTTTCGCTCTGTCAACCCAGGCTGGAGTGCAGTG
GCACAATCTTGACTCGCTGCAGTCTCCACCTCCAGGATTCAAGCGATTCCCCTGCCTCAGTCTCCCAAGCAGCTG
GGATTGTAGGTACACACCACCATGCCTGGCTAATTTTTGTGTGTGTGTGTATTTTAGTAGAGATGGGGTTTT
ACCATGTGGCCAGGCTGGTCTAGAACTCAACCTCAGGTGATCCGCCTGCCTTAGCCTCCCAAAGTGCTGGGATTA
CAGGCATGAGCCACCGCTCTCGGCCCCCTTGCTTTTAATTTTGAAGTACACATAACACCTTCTCTGGTAAAGG
TATGTCTCAATGGAGAACTCATAGTGATTAGTCTTTGTTTAACTAATGCTTTTAAAGGTAAACAGTTCTATCTC
GTTTCGATGTCTGTCTTTAGAGAAGTAGCTGATTTTCAGCTTCTGTGGATTCTTTATTGGAAAAAGACAATGAC
CATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGGTACGTTAGCACTATTATCTCTTTTTG
ACATTGTAATAAACTTGTTATTAATAAAAGTACTTTGCAGGCTATCTCAGCCATAATAGTGAATTTAATAGTGT
TCTTTGAGGCATCTTGTTAATATAAATTTAAATTCATTTAGCCATGTACTATAAGGTTATAATGATTTTTTCAGA
TTAGTTATAAAGCACTCCTCTTGAGCTGACATTGTTCAATTTTTTGATTAAACCACTTACAGGAAGACTGAAGTGT
TAATTAAATTTACAGATTGAAGCTGG

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FIGURE 2078

MPRLANFCIFSRDGVFPCWPGWSQTPDLKWSTCLGLPKCWDLCPPDRRGRIL

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FIGURE 2079A

GATTGCCCCCTGTGGGTCACTTTCTCAGTCATTTTGAGCTCAGCCTAATCAAAGACTGAGGTTATGAAGTCGATC
CTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGGGCTCAAATGACATTACG
TACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTTCCCACAGAAATTCCTTTAACTTCCTTTAGG
GGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTAGTCCCAGCAGACCAGGTGAACATTACA
GAATTTTACAACAAGTCTCTCTCGTCCCTCAAGGAGAATGAGGAGAACATCCAGTGTGGGGAGAACTTCATGGAC
ATAGAGTGTTCATGGTCTGAACCCAGCCAGCAGCTGGCCATTGCAGTCCCTGCAGCTGGGCACCTTC
ACGGTCTTGGAGAACCTCCTGGTGTGTGCGTCATCCTCCACTCCCGCAGCCTCCGCTGCAGGCCTTCCTACCAC
TTCATCGGCAGCCTGGCGGTGGCAGACCTCCTGGGGAGTGTCAATTTTGTCTACAGCTTCATTGACTTCCACGTG
TTCCACCGCAAAGATAGCCGCAACGTGTTTCTGTTCAAACCTGGGTGGGGTACGGCCTCCTTCACTGCCTCCGTG
GGCAGCCTGTTTCTCACAGCCATCGACAGGTACATATCCATTACAGGCCCTGGCCTATAAGAGGATTGTACAC
AGGCCCAAGGCCGTGGTGGCGTTTTGCCGTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCCTGGGC
TGGAAGTGCAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACACATTGATGAAACCTACCTGATGTTCTGG
ATCGGGGTACCAGCGTACTGCTTCTGTTTCATCGTGTATGCGTACATGTATATTCTCTGGAAGGCTCACAGCCAC
GCCGTCCGCATGATTACAGCGTGGCAGCCAGAGCATCATCCACACGTCTGAGGATGGGAAGGTACAGGTG
ACCCGGCCAGACCAAGCCCGCATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTGGTGTGATCATC
TGCTGGGGCCCTCTGCTTGCAATCATGGTGTATGATGCTTTGGGAAGATGAACAAGCTCATTAAAGACGGTGT
GCATTCTGCAGTATGCTCTGCCTGCTGAACCTCCACCGTGAACCCCATCATCTATGCTCTGAGGAGTAAGGACCTG
CGACACGCTTTCGGAGCATGTTTCCCTCTGTGTAAGGCACTGCGCAGCCTCTGGATAACAGCATGGGGGACTCG
GACTGCCTGCACAAACAGCAAACAATGCAGCCAGTGTTCACAGGGCCGAGAAAGCTGCATCAAGAGCACGGTC
AAGATTGCCAAGGTAACCATGTCTGTGTCCACAGACAGCTCTGCCGAGGCTCTGTGAGCCTGATGCCTCCCTGGC
AGCACAGGAAAAGAAATTTTTTTTTTAAGCTCAAAATCTAGAAGAGTCTATTGTCTCCTTGGTATATTTTTTTA
ACTTTACCATGCTCAATGAAAAGGTGATTGTACCATGATCACTTATCAGTTTGCTAATGTTTCCATAGTTTAGG
TACTCAAACCTCATTCTCCAGGGGTTTACAGTGAAGAAAGCCTGTTGTTTAAAGTACTGAACGATCCTTCAAAGT
CTCAATGAAATAGGAGGGAAACCTTTGGCTACACAATTGGAAGTCTAAGAACCCATGGAAAAATGCCATCAAATG
AATAATGCCTTTGTAAACCACAACCTTTCACTATAATGTGAAATGTAAGTGTCCGTAGTATCAGAGATGTCCATTTT
TACAAGTTATAGTACTAGAGATATTTTGAAAATGTATTATGTCCTGTGAGATGTGTATCAGTGTATGTGCTA
TTAATATTTGTTTAGTTTCAGCAAACTGAAAGGTAGACTTTTATGAGAACAATGGACAAGCAGTGGATACGTGTC
AATGTGTGCACTTTTTTCTATATTATTGCCCATGATATAACTTTAGAAATAAACCTTAATATTCTTCAAATAT
CTCTATTTAATTTGACACTGAAATAACCGTAAAGGTTTATTTTCTGTTACCTCAACAAGAAGAAATTTGAAGAC
TTCAAATATTGAGCAGAATTCATTCTACTTAAAAATTTATTAGCCCTGCATTTTCATAGGAAGACACATTATC
TTCTGGACTATAGCTGTCTAATGGATTATAATCAGAATGGAAGAGAGAAAGCATATTGACTTTTTTTGAGCGAC
ATCTCTGACTTTCTTTAGTCTTTAGCTATTACTGGATCTCTTAAGACAGCATGTGTTAATCTTAATGTATATCGT
TATCACTGTGCAGTTGTCTGTTTACTTGAATAGTATTGTGTTCTTATATTCCAGGTTTAAAGTAGATTTCATGCCTG
GGTGGCCAAACAACAGTCTTCATTTTTTTTAAATTGAAAAGAGTAGTGTCTGGATCAGTAAAAATTATCTGTGTG
TGAGTGTGAATATAAATGTGTGTATGTGTGTTTCTGTCTGTAAGTGTACAGTAATGTCTATAAAGTGAGAAAAC
TGTGACCAAGTATAAACTTTTACCATTGCTGCACCTTGCACATGGATTGAGTTTCTAAAAATTGAGTTCTTCCT
GTAATCTTGTGTGATAAAAAATACTGACTCCAACCATTCAAAAATTTCAACCCATCCCTCCTTAAAGAGATTGGATCA
AGTATTACTAAATTGACCTTTAGGTATTACACAAGACCAGTGTAGCAAAAAATAATGACAGGCATCCAAGGAA
GGGATGTATTTGTAGTGTATTGCCAGGAAAGGAGAGTACTTTGGTTTCTGAGCACCGAATATTGAGCAATATGT
CAGTCACTAAAAGGAAGACAGTTCTACAGAAAAACAATGGTAACATTTTTCAATAGCGTGTGTAGATAGTATGCA
CTATATACATCAGTTAAAGTAGGACTATCACACCCAGCCCATGTGGCTAAAAAAGCTGAATCAGACAGTGGATG
AGACACACAACGGCAGTGAAGAACCGATACACTTGGCATTGACGTCTAGCTATGCTGTATCTGTGCTTTGCCAC
ATGCCCTTGGTGACAGCTGAGCACCCAGCTCTGTCTTGGTAGGTTTGGGCTAAGGAACAAATCTCTCCTTTGCTC
GTGGTTAGCAAGATACACTCAAGCATGAAGATAAACACAGCTGCTTTCTTTTACACCCCGGTCTCATGCTCCTT
AATGGCGCCATGGGTGCTTGTGTTGGGCTTTTTCCAGTAAGGAATGATATTGCTGAAGAATCTACTTAACCTGAC
AAATTTTAAATTATAATCTCTTCTTATACAGATAAAACATGACTCCTACAAGGCCCAAGGTTTACATAGTCTGAA
GTGAAGTACAGAGCTGGCATCTATCTGGTGATTCTAGCTCTCGAGATACCAAGCAGCCTGATGGGGCAGTTCC
CCTTCTTACGGTTCACGCTCTAAGGCAGGATGTGGCTTATGAGATACCTTGCATTGTCTGTCTGCACACCTTGAA

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FIGURE 2079B

TCTGCCTGCTGGCTCCCTTACTTTACCTCTCTGTCATGTGCAGATGAAGGCTCAGGGTGCTAGAGGATTAGTAAG
ATCTCTTTCTAAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTTAGTTTGCAATTAAGAATTGCCA
GTCTTTTGTCTGCATCATCTTGAACATTAATCCACATGTTTCAGAGCTCACCAGGCAGTACCAATGCTCTTTTC
ACAGCTATGAAGAGCTAGAGAAATTCCTGTTATGGTAGAAAAATTTACGATTCAATTTTTGAACTGCATTTGTG
CGTATGCAGTGTAGATTTTATAGTGTGTTGTGCTTTCAAGATCTAAATCATATATAATAAATTAAGGGACAATGG
GGCTGACAGCACTAACTTGGTGCTTATTGATATTCTAAGAAATATCTGTGAAATATCATCACGTATGTTATACA
ACCTTCATTTAAAAAGGTTTAAACTAGTTAGATTCACTTTGACACTTTTCATATCATTCTTAACCCAAGTGAC
GAAAACATTGTCCCCAATGAATATACTCATTAGAATTACCATTGTGTTAATATCACTCATTAAATTAACCCATAAT
TAGATCCATTAATTTAAATGATTTAAATTTAAGTAAGTTTATAAGGTCTGACATCAGAGGTATCTTACTTTCCCT
CTGAGGATGATGTACTTGCCCTGACCATGCATTTTACCATCACACATGTTTCAGAAAGGGCCAAATTCCTAACCTG
CTCATTTTTTTTTTATCAGAGTCATGATGAATCAGTCCTAGAATGTTTCATTGACACAAGTAGGGCTGCCTCCAA
GAGGAACCTCTGATTTATTTGTATGAAATATATGTGAAAGGATATGAATCTGAGAGATGCTGTAGACATCTGTC
CTACACTTGAGATGATTTCCAAGCCTCTCTGGCACTTTGAGTTAAGTCTATCTGGTATTAAATGCCAAGGACCTT
TTGCTGCCTAAATCCACTCTGCAGGAAATAGGCCCAACCACCAGATGAGAATTAGGCCCTGGATGAGTAGCGCTA
TAGTTACTGTCTGTTGATTAAATTTCTGCCATTTTCATGTCCATAAAAGAGACCACCCATATCATGCACACAATTA
GATTTCTCACACTCTAACTGTATATTTGTATGATATTTTAAATCTCCTAAATGCTGGGCAATGGCTATTAAACAA
TTAATTGTCTTGCCTGACCTGGCCTTCTGATGAAATGTTAACAATGCCTATTGTAATATAGAAAAAACATTCTATCTA
CTGATTTGGGCTGAATGTATGTAAATAGGTTTCTAAAAAGTCAGATGTTTGAGCAGTGGCCTACAAATCAGTAAT
TTTCGGATGGGAGAGTTTCTTTACATTGCCGTGGCATCTTAAAGCTATCTTCATGTAAATTGACTGTACTAGGC
CTACTGGGGATCAGAGTTCCCAAGAAAGGAAACCTTTTCTGTATCTGGATTCAAATTTATTTCCAATGTTTCAA
GCGGGAACATGACTCTTTATTGTCTGTAAATCTAACATTATTACTTTTCCTCTTAGAAGAATATTGTATTGTTA
GATGTTTGTGAGCTGGTAACATCGTTGCAACCACTGCAATATCTTCGTTAGTAATCTGTATAATACTTTGTATA
CAAGTACTGGTAAGATTGTTATTAATGTAGCTTCAGTCATTAAATTACTATAGCAAAGTAGTACTTCTTCTGTA
ATATTTACAATGTATTAAGCCACAGTATATTTATTTCAATGTAATTAACTGTAACTTATTCAAAGAGAAAA
CATCTCATCATGTCTATTGTCCAAAGTTACCTGGAATCAAATAAAAATTCTAGATTACCATGAAGAACATA

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FIGURE 2080

GAGCGCGGTTACCGGACGGGCTGGGTCTATGGTCGCTCCGCGGGCCGCTCCGCCGGCTGGTGCTTTTTTATCAGG
GCAAGCTGTGTTCCATGGCAGGGAACTTTTGGCAGAGCTCCCACTATTTGCAATGGATTTTGGATAAACAAGATC
TGTTGAAGGAGCGCCAAAAGGATTTAAAGTTTCTCTCAGAGGAAGAATATTGGAAGTTACAAATATTTTTTACAA
ATGTTATCCAAGCATTAGGTGAACATCTTAAATTAAGACAACAAGTTATTGCCACTGCTACGGTATATTTCAAGA
GATTCTATGCCAGGTATTCTCTGAAAAGIATAGATCCTGTATTAAATGGCTCCTACATGTGTGTTTTTGGCATCCA
AAGTAGAGGAATTTGGAGTAGTTTCAAATACAAGATTGATTGCTGCTGCTACTTCTGTATTAAAACTAGATTTT
CATATGCCCTTTCCAAAGGAATTTCTTATAGGATGAATCATATATTAGAATGTGAATTCTATCTGTTAGAACTAA
TGGATTGTTGCTTGATAGTGTATCATCCTTATAGACCTTTGCTCCAGTATGTGCAGGACATGGGCCAAGAAGACA
TGTTGCTTCCCTTGCATGGAGGATAGTGAATGATACCTACAGAACGGATCTTTGCCTACTGTATCCTCCTTTCA
TGATAGCTTTAGCTTGCCATACATGTAGCCTGTGTTGTACAGCAGAAAGATGCCAGGCAATGGTTTGCTGAGCTTT
CTGIGGATATGGAAAAGATTTTGGAAATAATCAGGGTTATTTTAAAACTATATGAGCAGTGAAGAATTTTCGATG
AGAGAAAAGAGATGGCAACCATTTCTTAGTAAGATGCCAAAACCAAAACCACCTCCAAACAGTGAAGGAGAGCAGG
GTCCAAATGGAAGTCAGAACTCTAGCTACAGCCAATCTTAAACATTCCGAAGAATTCCATAGTGGACCACTTGG
AAATAAACCATTTGGACAGATTTTCAGTAATGTCTTCAGTGGAACACAAATGAAATGAATAGCTTGTTTCTGTCAA
GCATATTGGAAAGTGATTTTATTTTTGCAAAATAAGTTTTTCTTTAATATGATTCTAGTACATAATTGATTAAAA
TCTCTTGATTATAAATGTTTGGAAAGGTTCTAAGGGGACCTACAGACAGACATACATAGACATTTCAAAATTAAT
AGCTTTTGATTAGTATAATATTTCTTAATTTGGATAATAAAAAATTGTAGCTTTTATTAAGCCAGGAAACATGAA
GCATAATTTGTTTAAAATTCTCTTTGGTCATTGAGGACCAAAAAAGGACGTAAAAATTACAGTCAATCTATGAG
GGTTTTTTCCCTCCATAAGTTTAACTTTAAAACTGTATTTAAGGAATCAAATCTTACAAATCCTGGAAGATTT
TGGTAATGATGTTGATAATTTCAAGGAAATTAATCAAGTACCTATATTGATTTAAAAGTGATTTTATTCAGTAG
TTTGAGG.

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FIGURE 2081

AGTCTCCCCAGGTTGTAGACGCTGCGGCCCGGCCCGGGTAAATAACAGATGCGGGTGAAAGATCCAACATAAA
GCTTTACCTGAGAAAGCCAAAAGAAGTAAAAGGCCTACTGTACCTCATGATGAAGACTCTTCAGATGATATTGCT
GTAGGTTTAACTTGCCAACATGTAAGTCATGCTATCAGCGTGAATCATGTAAAGAGAGCAATAGCTGAGAATCTG
TGGTCAGTTTGCTCAGAAATGTTTAGAAGAAAGAAGATTCTATGATGGGCAGCTAGTACTTACTTCTGATATTTGG
TTGTGCCTCAAGTGTGGCTTCCAGGGATGTGGTAAAAACTCAGAAAGCCAACATTCATTGAAGCACTTTAAGAGT
TCCAGAACAGAGCCCCATTGTATTATAATTAATCTGAGCACATGGATTATATGGTGTTATGAATGTGATGAAAAA
TTATCAACGCATTGTATAAGAAGGTTTTGGCTCAGATAGTTGATTTTCTCCAGAAACATGCTTCTAAAACACAA
ACAAGTGCATTTTCTAGAATCATGAACTTTGTGAAGAAAAATGTGAAACAGATGAAATACAGAAGGGAGGAAAA
TGCAGAAATTTATCTGTAAGAGGAATTACAAATTTAGGAAATACTTGCTTTTTTAATGCAGTCATGCAGAACTTG
GCACAGACTTATACTCTTACTGATCTGATGAATGAGATCAAGAAAGTAGTACAAAACCTCAAGATTTTTCCTTCC
TCAGACTCTCAGCTGGACCCATTGGTGGTGGAACCTTCAAGGCCTGGACCACTGACCTCAGCCTTGTTCTCTGTTT
CTTCACAGCATGAAGGAGACTGAAAAAGGACCACTTTCTCCTAAAGTTCTTTTTAATCAGCTTTGTCAGAAGCGG
GTGCATCTACATTTAATAATAATAATTATGAGTTACAAAATACTAATGTATTTCATCATTTAACATGAATAGTCGT
TTTTACTGTAACTTTGCTCTTATTGCCCTGACTATGAAGAGAACTAAAATTTGTTACAGCTCTATGCTTTATGAA
AATTATATCTCAGTCCTCAGAAGAAGCAGCTTATCCTCATATATAAGGAAATGGAGACACAGAAATTAATGGCT
CACCTAGTCTGAGTGAAAAGCTGAGAATCAATGGAGATCTGTCCTGACTTGGATGCCTATGTTGTAATACCATA
AAGTGAGAAAACCATAGAGTTGTAAAATCTAGAAAGTACCGTAAGATAACATCTAATCTAGCTTTCTTATTTTAA
AAGATGAGCTGTGAGGCAATAGAGTTTAAAGTGAATTTCTCAAGGTATTACAGTATGTTTAAAAACCAATCCTT
ATGTGCCTGGAATAAACACATAAAGGATCTGACTTGTAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2082

MRVKDPTKALPEKAKRSKRPTVPHDEDSSDDIAVGLTCQHVS H A I S V N H V K R A I A E N L W S V C S E C L E E R R F Y D G Q
L V L T S D I W L C L K C G F Q G C G K N S E S Q H S L K H F K S S R T E P H C I I I N L S T W I I W C Y E C D E K L S T H C N K K V L A Q I V D F L
Q K H A S K T Q T S A F S R I M K L C E E K C E T D E I Q K G G K C R N L S V R G I T N L G N T C F F N A V M Q N L A Q T Y T L T D L M N E I K E S S
T K L K I F P S S D S Q L D P L V V E L S R P G P L T S A L F L F L H S M K E T E K G P L S P K V L F N Q L C Q K R V H L H L I

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FIGURE 2083

AGTTTGTTGCTCCCAACGAGTTCTGAAGAACGCCAGCAGCTCGCTGCTTAAAATTAAACCACAGGGTTCCATGAT
GGGTCAACTTGATGGGAAAGTCATCATCCTGACAGCCGCTGCTCAGGGGATTGGCCAAGCAGCTGCCTTAGCTTT
TGTAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGTGTCCAACTTCAGGAAGTGGAAAAGTACCTGGG
TATTCAAACTCGTGTCCTTGATGTCACAAAGAAGAAACAAATTGATCAGTTCGCCAATGAAGTTGAGAGACTTGA
TGTTCTCTTTAATGTTGCTGGTTTTGTCCATCATGGAAGTGTCTGGATTGTGAGGAGAAAGACTGGGACTTCTC
GATGAATCTCAATGTGCGCAGCACGTACCTGATGATCAAGGCATTCTTCCTAAAATGCTTGCTCAAAAATCTGG
CAATATTATCACCATGTTTTCTGTGGTTTCCAGCATCAAAGGAGTTGTGAACAGATGTGTGTACAGCACAAACCA
GGCAGCCGTGATTGGCCTCACAAAATCTGTGGCTGCAGATTTATCCAGCAGGGCATCAGGTGCAACTGTGTGTG
CCCAGGAACGGTTGATACGCCATCTCTACAAGAAAGAATACAAGCCAGAGGAAATCCTGAAGAGGCACGGAATGA
TTTCCTGAAGAGACAAAAGATGGGACGATTTGCAACTGCAGAAGAAATAGCCATGCTCTGCGTGTATGTGGCTTC
TGATGAATCTGCTTATGTAAGTGGTAACCTGTGATCATTGATGGAGGATGGAGCTTGATTTTAGGATCTCCA
TGGTGGGAAGGAAGGCAGGCTCTTCCTATCCACAGTGAACCTGGCTATGAAGAAACTCACCAATCATCTCCTTC
CTGCTAATCACATGTTAATGAACTAAGCCCTTTTTAACAATGTCACTGTTTGCAAGAGTCTGATTCTTTAAGTA
TATTAATCTCTTTGTAATCTCTTCTGAAATCATTGTAAAGAAATAAAATATTGAACTCACAGCAAGAGAATAGT
TTTTAAATAAATCTCAATTTGTAAGC

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FIGURE 2084

MGQLDGKVIILTAAQGIGQAAALAFVREGAKVIATDINVSKLQELEKYLGIQTRVLDVTKKKQIDQFANEVERL
DVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSTYLMIKAFLPKMLAQKSGNIITMFSVVSSIKGVVNRVYSTT
KAAVIGLTKSVAADFIQQGIRCNCVCPGTVDTPSLQERIQARGNPPEARNDFLKRQKMGRFATAEEIAMLCVYVA
SDESAYVTGNPVIIDGGWSL

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FIGURE 2085

ATGAATGCTATAAAGAGATTTCAGGATGGAAAATTAGTACAGAACAAAGCCTACTGTGGAGAATCAACACCACAG
CATTTCACAGGCCTGCAGCCTTAIGTGGTTAGCATGGATGAGGGTTCTTCAGGTTTCATGAGAATAGGCTATGAA
CACTGGGTTTTGGTCTTCTTGATTCTCAGTGCCTGGATACCAGAAAAAGAGAAATATGAGATTGCAGAGCAGCCC
AAGATTGATCAGAAAGCTGTGGACTCACAAATTTACCAAAAATCAAAAGTATTCCTCAGCTCCAGTGCTACCTG
CGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTTTAA

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FIGURE 2086

MNAIKRFQDGKLVQNKAYCGESTPQHFTGLQPYVVSMDGSSGFMRIGYEHWVLVFLILSAWIPEKEKEYEIAEQP
KIDQKAVDSQILPKIKSIPQLQCYLRSVFALTNGIYPHKLVE

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FIGURE 2087

ACAATCCAGCCAATGGCAGAAGACTGCCGGAATGTAGAAGAGTTAAGTGTGTGTCCTATGCGTTCTACCTCAAT
GCAGATATCAGAGTCCCTTTGAGCTCCCTGAAGAATATACTCACACCAAAGTATTACCTGCACATAGCTGCTCCC
TTCCACCTCGCGGCAGTTCAAAATGAAGCTGTTGTCATTTCTGGAAGGAACTAGCCCAGCAGATCAAGCAGAAA
GTGCGGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAACAACTGAGCATGATCCTGTACCTGCTGCTATAGTT
CCAGCAAAAAGATGACTTCTTGCAAGCAAGAAGGCTCCAGCCCAGAAGGTTCTTGCCCAGAAAGCCACAGGCTA
GAGGCAGTGCCTCCTCTGAAAGCTCAGAAGTTTCAAAAGCAACGTGCCAGAAAGCATGTTGTCCAAAAGCATCT
GGCAAGAAAGCGTTAAGAGGCTATTATAAAAGTAGTAAAGGGTCCAACAACCTTCAAGGACAAGAATGATGTATTT
TCATCACTTGIGACTTCCGGTTTCCTAGACCAGATTTCCGGGTCGGTCTGACCAGGTGCAGCCCCATCCTAGCAGC
AGATTGCTTGTTCTCAGCATTCCCATCATGGAGAATCTTAGTGTGGTGGGAGGCTTGGGAAATACCGTTTTCAA
GACCAGTGGATTAGTAGCCTGAAAACTCGCCAGCAGTTGCCTGCTTTTGTTCATCTTCCTGTCTCTGGAAGAGCAC
CTGATCCTCACTACCAAAAACTAA

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FIGURE 2088

MAEDCRKCRRVKCVSYAFYLNADIRVPLSSLKNILTPKYLLHIAAPFHAAVQNEAVVISGRKLAQQIKQKVRQE
VEEWVASGNKPEHDPVPAIIVPAKKMTSCRQEGSSPEGSCPESHRLAEPPLKAQKFQKQRAQKACCPKASGKKA
LRGYKSSKGSNNFKDKNDVFSSLVTSGFLDQISGRSDQVQPHPSSRLLVLSIPIMENLSVVGGLGNTVFKDQWI
SSLKTRQQLEPAFVIFLSLEEHLILTTKN

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FIGURE 2089

ACCTGATGGAGATCCAAGTGTTTGGGCAGGATGAGATGATCGACGTCATTGGGGTGACCAAGGGCAAAGGCTACA
AAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCTGCAAGACCCACCGAGGCCTGTGCAAGGTGGCCTGTA
TTGGGGCATGGCATCCTGCTCGTGTGGCCTTCTCTGTGGCACGTGCTGGGGAGAAAGGCTACCGTCACCGCACTG
AGATCAACAAGAAGATCTATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCT
CCACTGACTCTGACCTGTCTGACAAGAGCACCAATCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATG
ACCTTGTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCCCTCCACGAGTCCTTGCTGGTGC
AGATGAAACGGCAGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCTGCT
TCCAGACCATGGAGCAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACGGAATTGCAAAGGAAGAAGGAGCTT
AATGCCAGGAACAGATTTGCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTGGGAAAAAAAAA

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FIGURE 2090

CGGTGATGTCTCACAGAAAGTTTTCTGCTCCCAGACATGGGTCCCTCGGCTTCCTGCCTCAGAAGCGCAGCAGCA
GGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGATCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT
ACAAAGCTGGCATGACCCACATCATGAGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGT
TTGGCCATGGCTGCTTCCAGACCATGGAGCAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACGGAATTGCAA
AGGAAGAAGGAGCTTAATGCCAGGAACAGATTTGCGAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTG

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FIGURE 2091

AACAGGAAGCGGCCCTCCCGGCTTCGGAGCCGCCGCACTCATCTCTGCCCAGCTGCTGCCCTCCCCAGGAGGC
CTCCATGGCTTCACCTACCTCCACCAACCCAGCGCATGCCACTTTGAGAGCTTCCTGCAGGCCAGCTGTGCCA
GGACGTGCTGAGCAGCTTCCAGGAGCTGTGTGGGGCCCTGGGGCTGGAACCCGGTGGGGGGCTGCCCCAGTACCA
CAAGATCAAGGACCAGCTCAACTACTGGAGCGCCAAGTCACTGTGGACCAAGCTGGACAAGCGAGCAGGCCAGCC
TGCTTACCAGCAGGGCCGGGCCCTGCACCAGCACCAGTGCCTGGTGGTGGGTGCTGGACCTTGCGGGCTGCGGGT
CGCTGTGGAGCTGGCGCTGCTGGGGGCCCGAGTGGTGTCTGGTGGAAAAGCGCACCAAGTTCTCTCGCCACAACGT
GCTCCACCTCTGGCCCTTCACCATCCACGACCTGCGGGCACTCGGTGCTAAGAAGTTCTACGGGCGCTTCTGCAC
CGGCACCTTGGACCACATCAGCATCAGGCAGCTCCAGCTGCTTCTGCTGAAGGTAGCATTGCTGCTGGGGGTGGA
AATTCAGTGGGTGTCACTTTCACTGGCCTCCAGCCCCCTCTAGGAAGGGGAGTGGCTGGCGTGCCAGCTCCA
ACCAACCCCTGCCCAGCTGGCCAACTATGAATTTGACGTCCTTATCTCGGCTGCAGGAGGTAAATTCGTCCC
TGAAGGCTTCAAAGTTCGAGAAATGCGAGGCAAACCTGGCCATTGGCATCACAGCCAACTTTGTGAATGGACGCAC
CGTGGAGGAGACACAGGTGCCGGAGATCAGTGGTGTAGCCAGGATCTACAACCAGAGCTTCTTCCAGAGCCTTCT
CAAAGCCACAGGCATTGATCTGGAGAACATTGTGTACTACAAGGACGACACCCACTACTTTGTGATGACAGCCAA
GAAGCAGTGCCTGCTGCGGTGGGGGTGCTGCGCCAGGACTGGCCAGACACCAATCGGCTGCTGGGCAGTGCCAA
TGTGGTGGCCGAGGCTCTGCAGCGCTTTACCGGGCAGCTGCTGACTTTGCCACCCATGGCAAGCTCGGGAACT
AGAGTTTGCCAGGATGCCATGGGCAGCCTGATGTCTCTGCCTTTGACTTCACGAGCATGATGCGGGCAGAGAG
TTCTGCTCGTGTGAAGAGAAGCATGGCGCCCGCTGCTGCTGGGACTGGTGGGGGACTGCCTGGTGGAGCCCTT
CTGGCCCTGGGCACTGGAGTGGCAGGGGCTTCCTGGCAGCCTTTGATGCAGCCTGGATGGTGAAGCGGTGGGC
AGAGGGCGCTGAGTCCCTAGAGGTGTTGGCTGAGCGTGAGAGCCTGTACCAGCTTCTGTACAGACATCCCCAGA
AAACATGCATCGCAATGTGGCCAGTATGGGCTGGACCCAGCCACCCGCTACCCCAACCTGAACCTCCGGGCAGT
GACCCCAATCAGGTACGAGACCTGTATGATGTGCTAGCCAAGGAGCCTGTGCAGAGGAACAACGACAAGACAGA
TACAGGGATGCCAGCCACCGGTGCGCAGGCACCCAGGAGGAGCTGCTACGCTGGTGGCAGGAGCAGACAGCTGG
GTACCCGGGAGTCCACGTCTCCGATTGTCTTCTCTGGGCTGATGGGCTAGCTCTGTGTGCCCTGGTGTACCG
GCTGCAACCTGGCCTGCTGGAACCTCAGAGCTGCAGGGGCTGGGAGCTCTGGAAGCAACTGCTTGGGCACTAAA
GGTGGCAGAGAATGAGCTGGGCATCACACCGGTGGTGTCTGCACAGGCCGTGGTAGCAGGGAGTGACCCACTGGG
CCTCATTGCTTACCTCAGCCACTTCCACAGTGCCCTCAAGAGCATGGCCACAGCCAGGCCCTGTGAGCCAGGC
CTCCCCAGGGACCTCCAGTGCTGTATTATTCCTTAGTAACTTCAGAGGACCCTGCAGCGATCCCGGGCCAAGGA
AAATGCAGAGGATGCTGGTGGCAAGAAGCTGCGCTTGGAGATGGAGGCCGAGACCCCAAGTACTGAGGTGCCACC
TGACCCAGAGCCTGGTGTACCCCTGACACCCCATCCCAACACAGGAGGCCGTGGTGGGACCTGTGTGCACT
TTGTGGGGAACACCTCTATGTCTGGAACGCTCTGTGTCAACGGCCATTTCTTCCACCGAGCTGCTTCCGCTG
CCATACCTGTGAGGCCACACTGTGGCCAGGTGGCTACGAGCAGCACCAGGAGATGGACATTTCTACTGCCTCCA
GCACCTGCCCCAGACAGACCACAAAGCGGAAGGCAGCGATAGAGGCCCTGAGAGTCCGGAGCTCCCCACACCAAG
TGAGAATAGCATGCCACCAGCCTCTCAACTCCACAGCCTCGCAGGAGGGGGCCGCTCCTGTTCCAGATCCCAG
CCAGCCCACCCGTCGGCAGATCCGCCTCTCCAGCCCGAGCGCCAGCGGTTGTCTCCTTAACTTACCCCTGA
CCCGGAAATGGAGCCTCCACCAAGCCTCCCCGAGCTGCTCCGCCTTGGCCCGCCACGCCCTGGAGAGCAGCTT
TGTGGGCTGGGGCCTGCCAGTCCAGAGCCCTCAAGCTCTTGTGGCCATGGAGAAGGAGGAAAAAGAGAGTCCCTT
CTCCAGTGAAGAGGAAGAAGAAGATGTGCCTTTGGACTCAGATGTGGAACAGGCCCTGCAGACCTTTGCCAAGAC
CTCAGGCACCATGAATAACTACCCAACATGGCGTCGGACTCTGCTGCGCCGTGCGAAGGAGGAGGAGATGAAGAG
GTTCTGCAAGGCCAGACCATCCAACGGCGACTAAATGAGATTGAGGCTGCCTTGAGGGAGCTAGAGGCCGAGGG
CGTGAAGCTGGAGCTGGCCTTGAGGCGCCAGAGCAGTTCCCGAGAACAGCAAAAGAACTATGGGTAGGACAGCT
GCTACAGCTCGTTGACAAGAAAAACAGCCTGGTGGCTGAGGAGGCCGAGCTCATGATCACGGTGCAGGAATTGAA
TCTGGAGGAGAAACAGTGGCAGCTGGACCAGGAGCTACGAGGCTACATGAACCGGGAAGAAAACCTAAAGACAGC
TGCTGATCGGCAGGCTGAGGACCAGGTCTGAGGAAGCTGGTGGATTGTTCAACCAGAGAGATGCCCTCATCCG
CTTCCAGGAGGAGCGCAGGCTCAGCGAGCTGGCCTTGGGGACAGGGGCCAGGCTAGACGAGGTGGGCGCTCT
GCTTTCGTTCCACAAAGAAAGCACCTACCCAGCAGTGCCACCCCTGTTCATCTGGGCTGCCTGGCAGAGA
GCCTTGCTGTTTACAATTAAATGTTTCTGCCAC

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FIGURE 2092

GTTCCGGCGCACGTAATCGCCGAGGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGAC
ACTCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAAGAGATTCCCTTGAGAAGAGAGAACCGAAACTCAAT
GAAAAATATTAAAAATGCCATGCTGATTAAAGGGGGAAATGCAAAATGCAACAGTGACAAAAGTACTTAAAGATGTG
TATGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCA
CTGGAAATCTTTTTCAAAGAAGTCAGATTGTTCTTTATTTCATGTTTGGCTCCCATATAAGAAGCGGCCAAATAAT
CTAGTAATAGGTTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTA
AAAGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTTGATGTA
ACAGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTG
GCTGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTTGAAGCTATAAGTTGCTGTTG
AAGAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGG
ACACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAA
AATATTTCCCATGATACTTTTGGTACAACCTTATGGAAGGATTCATATGCAGAAGCAAGACCTAAGCAAACCTACAA
ACCAGGAAAATGAAGGGGTTGAAGAAGCGACCTGCAGAAAGGATAACAGAAGACCACGAGAAAAAGTCAAAAAGA
ATTAAAAAAAATTGATGGAACCTTAGCCAGCCACTACTGTTTCATTGTGTTCTACTTAAGAGAATTATCAAGCGTC
AATCCATTCAGAGTTTCTTATAAGATCTTATTATATATTTTTATAACATGATAATTTTACGATATATTATTATGA
ACAGTAATATACTAGTATTAAAGTGTAAGTAAGCCTTTTATTTGAGACATTACACCCTGGTGTGCCATTTTCTCT
TGTGATATCCCCTGCCCTCCACAAATTCTTCTTCTCATTGGGTGGATGGATGGGTGAGGAGGGATCTCCATAAC
CATTGGGATTTTTTTGAATTTCTGGCCTTAGCTAAAGAAAGCCACAGAAAGCCGACCCGCAGGAGCTGTGTAAA
CAATCTCAGTATGAATTACCTGGAAAGTTAACCCTCTCTCCAACATGGATCTACATTCTGATTTTTTATTTCTA
CTTTTATTTTGCTGAAATCCTACTCGTTGACATTTGAGATTTTAAAGCTTTGTGGCTGAAAATATATAGATCTCT
GAG

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FIGURE 2093

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEEMGPSLDLVL
RRTHLASDDLYKL SMKMPKALKPKKKKNISHDTFGTTYGRIHMQQDLSKLQTRKMKGLKKRPAERITEDHEKKS
KRIKKN

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FIGURE 2094

ATGGAACAGTACATCTGTAAAAGGACAAGTGATGGCATCTACATCATAAATCTGAAGAGGACCTGGGAGAAGCTT
CTGCTGGCAGCTCATGCCATTGCTGCCATTGAAAACCTGCAGATGTCAGTGTTATATCCTCCAGGAATATTGGC
CAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC
ACTAACCAGATCCAGGCAGCTTTCTGGGAGCCACGGCTTCTTGIGTTACTGACCCCAGGGCTGACCACCAGCCT
CTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTATTCTCCTTGTGCTATGTGGACATTGCCATCGCA
TGCAACAACAAGGGAGCTCACTCGGTGGGTTTGATGTGGTGGACACCGGCTCGGGAAGTTCTGCGCATGCGTGGC
ACCATTTCCTGCGAACACCCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAA
GAAGAGCAGGCTGCTGCTAAAAAAGCTGTGACCAAGAAAGAATTTCAGGGTGAATGGACTGCTTCAGCTCCTGAG
TTCAGTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGCATGCAGGCCACCGAATGGGTAAAAGCAATCACT
GAATGGGTAGAAGCAACCGCTGAATGGTCTTAA

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FIGURE 2095

MEQYICKRTSDGIYIINLKRTWEKLLLAHAIAAIENPADVSVISSRNIGQRAVLKFAAATGATPIAGRFTPGTF
TNQIQAAFWEPRLLVVTDPRAHDHQLTEASYVNLPTIALFSLCYVDIAIACNNKGAHSVGLMWWTPAREVLRMRG
TISCHEPWEMPDLYFYRDPEEIEKEEQAAAKKAVTKKEFQGEWTASAPEFTATQPEVADWSEGMQATEWVKAIT
EWVEATAEWS

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FIGURE 2096

ATGGCAAAGGAAGATAACAGAAGACCCCTCCAGAGAGTGGAAATCCTGAAAATCAAGGAACATTTCTGTATACTCAA
GTGAATGGGAAAGTGGAAATATTTCCCTGAAGTGGAAAGGGATTACAGATGCTGACAATACTTGGGAACCTGAAGAA
AATTTAGATTGTCCAGAATTGATTGAAGCATTTCTTAGCTCTCAGAAAGCTGGCAAACAAAAAGATGACAGCAGT
GGAGAATTGATGTTTCTCATGAAATGGAAAGATTCAGATGAGGCAGACTTGGTGCTGGCAAAGAAGCAAGTATG
AAGTGTCTCAAATTGTAATTGCTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCAGAAAGATGAAGCTCAA
TAA

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FIGURE 2097

MAKEDNRRPSREWNPENQGTFLYTQVNGKVEYFLKWKGFDTADNTWEPEENLDCPELIEAFLSSQKAGKQKDDSS
GELMFLMKWKDSDEADLVLAKEASMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2098

CTCTTCCGGTTCTAGGCACTTCGGGAGCCGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACAC
ACAACCAGTCCCGAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG
TGGACCCCAAGTTCCTGAGGAACATGCGCTTTGCCAAGAAGCACAAACAAAAGGGCCTAAAGAAGATGCAGGCCA
ACAATGCCAAGGCCATGAGTGACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA
TCCCAAGGGAGTCAGCTGCAAGCTCGATCGACATGCCTACGTTGCCACCCCAAGCTTGGGAAGCGTGCTCTTG
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGCCAAGGATCAAA^bCAAGGCCCAGG
CTGCAGCTCCAGCTTCAGTTCCAGCTCAGGCTCCCAAGGTACCCAGGCCCTACAAAGGCTTCAGAGTAGATAT
CTCTGCCAACATGAGGACAGAAGGACTGGTGCACCCCCACCCCCACCCCTGGGCTATCATCTGCATGGGGCTG
GGGTCTCCTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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FIGURE 2099

ACAAAAAGCTTTTACGAGGTATCAGCACTTTTCTTTTATTAGGGGAAGGCGTGAGGAAAGTACCAACAGCAG
CGGAGTTTTAACTTTTAAATAGACAGGTCTGAGTGCCTGAACTTGCCTTTTTCATTTTACTTTCATCCTCCAAGGAG
TTCAATCACTTGGCGTGACTTCACTACTTTTAAAGCAAAAGAGTGGTGCCAGGCAACATGGGTGACTGGAGCGCC
TTAGGCAAACTCCTTGACAAGGTTCAAGCCTACTCAACTGCTGGAGGGAAGGTGTGGCTGTCACTACTTTTCATT
TTCCGAATCCTGCTGCTGGGGACAGCGGTTGAGTCAGCCTGGGAGATGAGCAGTCTGCCTTTTCGTTGTAACACT
CAGCAACCTGGTTGTGAAAATGTCTGCTATGACAAGTCTTTCCCAATCTCTCATGTGCGCTTCTGGGTCTGCAG
ATCATATTTGTGTCTGTACCCACACTCTTGTACCTGGCTCATGTGTTCTATGTGATGCGAAAGGAAGAGAACTG
AACAAGAAAGAGGAAGAACTCAAGGTTGCCCAACTGATGGTGTCAATGTGGACATGCACTTGAAGCAGATTGAG
ATAAAGAAGTTCAAGTACGGTATTGAAGAGCATGGTAAGGTGAAAATGCGAGGGGGTGTGCTGCGAACCCTACATC
ATCAGTATCCTCTTCAAGTCTATCTTTGAGGTGGCCTTCTTGTGATCCAGTGGTACATCTATGGATTGAGCTTG
AGTGTGTTTACACTTGCAAAAGAGATCCCTGCCACATCAGGTGGACTGTTTCTCTCTCGCCCCACGGAGAAA
ACCATCTTCATCATCTTCATGCTGGTGGTGTCTTGGTGTCCCTGGCCTTGAATATCATTTGAACCTCTTCTATGTT
TTCTTCAAGGGCGTTAAGGATCGGGTTAAGGGAAGAGCGACCCCTACCATGCGACCAAGTGGTGTGCTGAGCCCT
GCCAAAGACTGTGGGTCTCAAAAATATGCTTATTTCAATGGCTGCTCCTCACCAACCGCTCCCCTCTCGCCTATG
TCTCCTCTGGGTACAAGCTGGTTACTGGCGACAGAAACAATTCTTCTGCGCAATTACAACAAGCAAGCAAGT
GAGCAAACTGGGCTAATTACAGTGCAGAACAAAATCGAATGGGGCAGGCGGGAAGCACCATCTCTAATCCCAT
GCAAGCCTTTTGATTTCCCGATGATAACCAGAATTCTAAAAAACTAGCTGCTGGACATGAATTACAGCCACTA
GCCATTGTGGACCAGCGACCTTCAAGCAGAGCCAGCAGTCTGTGCCAGCAGCAGACCTCGGCCTGATGACCTGGAG
ATCTAGATACAGGCTTGAAGCATCAAGATTCCACTCAATTGTGGAGAAGAAAAAGGTGCTGTAGAAAGTGCAC
CAGGTGTTAATTTTGATCCGGTGGAGGTGGTACTCAACAGCCTTATTCAATGAGGCTTAGAAAAACAAAGACATT
AGAATACCTAGGTTCACTGGGGGTGTATGGGGTACTGGGTGGAGAGGGAGGGGATAAGAGAGGTGCATGTTGGT
ATTTAAAGTAGTGATTCAAAGAACTTAGATTATAAAAGAGTTCATTAGGTGATACATAGATAAGGGCTTTT
TCTCCCCGCAACACCCCTAAGAATGGTTCTGTGTATGTGAATGAGCGGGTGGTAATTGTGGCTAAATATTTTGT
TTTTACCAAGAACTGAAATAATTCTGGCCAGGAATAAATACTTCTGAACATCTTAGGTCTTTTCAACAAGAAA
AAGACAGAGGATTGTCTTAAGTCCCTGCTAAAACATTCCATTGTTAAAATTTGCACTTTGAAGGTAAGCTTCT
AGGCCTGACCCTCCAGGTGTCAATGGACTTGTGCTACTATATTTTTTTTATTCTTGGTATCAGTTTAAAATTCAGA
CAAGGCCACAGAAATAAGATTTTCCATGCATTGTGCAATACGTATAFTCTTTTTCCATCCACTTGCACAATATCA
TTACCATCACTTTTTTCATCATTCCCTCAGCTACTACTCATTTCATTTAATGGTTTCTGTAAACATTTTAAAGACA
GTTGGGATGTCACCTAACATTTTTTTTTTTTGGAGCTAAAGTCAGGGAATCAAGCCATGCTTAATATTTAACAATC
ACTTATATGTGTGTCGAAGAGTTTGTGTTTGTGTCATGTATTGGTACAAGCAGATACAGTATAAACTCACAAAC
ACAGATTTGAAAATAATGCACATATGGTGTCAAATTTGAACCTTTCTCATGGATTTTTGTGGTGTGGGCCAATA
TGGTGTTTACATTATATAATTCCTGCTGTGGCAAGTAAAGCACACTTTTTTTTTTCTCCTAAAATGTTTTTCCCTG
TGTATCCTATTATGGATACTGGTTTTGTTAATTATGATTCTTTATTTTCTCTCCTTTTTTTTAGGATATAGCAGTA
ATGCTATTACTGAAATGAATTTCTTTTTCTGAAATGTAATCATTGATGCTTGAATGATAGAATTTTAGTACTGT
AAACAGGCTTTAGTCATTAATGTGAGAGACTTAGAAAAATGCTTAGAGTGGACTATTAATGTGCCTAAATGAA
TTTTGCAGTAACGTGATTCTTGGGTTTTCTTACTTAATACACAGTAATTCAGAACTTGTATTCTATTATGAGTT
TAGCAGTCTTTTGGAGTGACCAGCAACTTTGATGTTTGCACTAAGATTTTATTTGGAATGCAAGAGAGGTTGAAA
GAGGATTCAGTAGTACACATACAACCTAATTTATTTGAACTATATGTTGAAGACATCTACCAGTTTCTCCAAATGC
CTTTTTTAAAACTCATCACAGAAGATTGGTGAAGATGCTGAGTATGACACTTTTCTTCTGTCATGTCATGTCAGCT
ACATAAACAGTTTTGTACAATGAAAATTACTAATTTGTTGACATTCCATGTTAAACTACGGTCAATGTTTCAGCTT
CATTGCATGTAATGTAGACCTAGTCCATCAGATCATGTGTTCTGGAGAGTGTCTTTATTCAATAAAGTTTTAAT
TTAGTATAAACAT

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FIGURE 2100

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPI SHV
RFWVLQIIFVSVPTLLYL AHVFYVMRKEEKL NKKEELKVAQTDGVNNDMHLKQIEIKKFKYGIEEHGKV KMRGG
LLRTYIISILFKSIFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNI
IELFYVFFKGVKDRVKGKSDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSCRN
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLAIVDQRPSSRASSRASSRP
RPDDLEI

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FIGURE 2101

GCTGTGCGTCCGGAAGTGTCTCGCAGATAGTAAATAATCTCGGAAAGGCGAGAAAGAAGCTGTCTCCATCTTGTCT
TGATATCCGCTGCTCTTGTGACGTTGTGGAGATGGGGAGCGTCCTGGGGCTGTGCTCCATGGCGAGCTGGATACCA
TGTTTGTGTGGAAGTGCCCCGTGTTTGTCTATGCCGATGCTGTCTAGTGGAACAACCTCCACTGTAAGTAGATTG
ATCTATGCACTTTTCTTGCTTGTGGAGTATGTGTAGCTTGTGTAATGTTGATACCAGGAATGGAAGAACAACCTG
AATAAGATTCTCGGATTTTGTGAGAATGAGAAAGGTGTTGTCCCTGTAAACATTTGGTTGGCTATAAAGCTGTA
TATCGTTTGTGCTTTGGTTTGGCTATGTTCTATCTTCTCTCTTTACTAATGATCAAAGTGAAGAGTAGCAGT
GATCCTAGAGCTGCAGTGCACAATGGATTTTGGTTCTTTAAATTTGCTGCAGCAATTGCAATTATTATTGGGGCA
TTCTTCATTCCAGAAGGAACCTTTACAACCTGTGTGGTTTTATGTAGGCATGGCAGGTGCCTTTTGTTCATCCTC
ATACAACCTAGTCTTACTTATTGATTTTGCACATTATGGAATGAATCGTGGGTTGAAAAATGGAAGAAGGGAAC
TCGAGATGTTGGTATGCAGCCTTGTATCAGCTACAGCTCTGAATTATCTGCTGTCTTTAGTTGCTATCGTCTG
TTCTTTGTCTACTACACTCATCCAGCCAGTTGTTTCAGAAAACAAGGCGTTCATCAGTGTCAACATGCTCCTCTGC
GTTGGTGCTTCTGTAATGTCTATACTGCCAAAAATCCAAGAATCACAACCAAGATCTGGTTTGTACAGTCTTCA
GTAATTACAGTCTACACAATGTATTTGACATGGTCAGCTATGACCAATGAACCAGAAACAAATTGCAACCCAAGT
CTACTAAGCATAATTGGCTACAATAACAAGCACTGTCCAAAGGAAGGGCAGTCCAGTGGTGGCATGCT
CAAGGAATTATAGGACTAATCTCTTTTGTGTGTGATTTTATCCAGCATCCGTACTTCAAACAATAGTCAG
GTTAATAAACTGACTCTAACAAGTGATGAATCTACATTAATAGAAGATGGTGGAGCTAGAAGTGATGGAATCACTG
GAGGATGGGGACGATGTTTACCAGCTGTAGATAATGAAAGGGATGGTGTCACTTACAGTTATTCCTTCTTTTAC
TTCATGCTTTTCTGGCTTCACTTTATATCATGATGACCTTTACCAACTGGTACAGGTATGAACCTTCTGTGAG
ATGAAAAGTCAGTGGACAGCTGTCTGGGTGAAAATCTCTTCAGTTGGATTGGCATCGTCTGTATGTTTGGACA
CTCGTGGCACCCTTGTCTTACAAATCGTGATTTTGACTGAGTGAAGCTTCTAGCATGAAAGTCCCACTTTGAT
TATTGCTTATTTGAAAACAGTATTCCCAACTTTTGAAAGTTGTGTATGTTTTTGGCTTCCCATGTAACCTTCTCCA
GTGTTCTGGCATGAATTAGATTTTACTGCTTGTCACTTTGTATTTTCTTACCAAGTGCATTTGATATGTGAAGTA
GAATGAATTGCAGAGGAAAGTTTTATGAATATGGTGATGAGTTAGTAAAGTGGCCATTATGGGCTTATCTCT
GCTCTATAGTTGTGAAATGAAGAGTAAAAACAAATTTGTTTGAATTTTAAATTTATATTAGACCTTAAGCTGT
TTTAGCAAGCATTAAAGCAAATGTATGGCTGCCTTTTGAATATTTGATGTGTGCTGGCAGGATACTGCAAG
AACATGGTTTATTTTAAATTTTATAAACAAGTCACCTAAATGCCAGTTGTCTGAAAAATCTTATAAGGTTTTACC
CTTGATACGGAATTTACACAGGTAGGAGTGTTTAGTGGACAATAGTGTAGGTTATGGATGGAGGTGTGGTACT
AAATTGAATAACGAGTAAATAATCTTACTTGGGTAGAGATGGCCTTTGCCAACAAAGTGAAGTGTTTTGGTTGTT
TTAAACTCATGAAGTATGGGTTTCACTGGAATGTTTGAAGTCTGAAAGGATTTAGACAAGGTTTTGAAAAGGATA
ATCATGGGTTAGAAGGAAGTGTGTTGAAAGTCACCTTTGAAAGTGTGTTTTGGGCCAGCAGGTTAGCTCACCCTGT
AATCCCAGCACTTTGGGAGGCTGAGGTGGGTAGATTACTTGAGCCAGGAATTCAAGACCAGCCTGGGCAACATG
GTGAAACCTGTCTTATAAAAAATAATCTGGGCTTTGTAGCATATGCCTGTGGTCCCAGCTACTGAGGAGGCTG
AGGTGGGAGGATTGCTTGAGCCCAGGAGGCAGAGTTGCAGTGAGCCAAGGTCACGTCAGTCTAGCCTGG
GCAACAGAGTAAGACAAAAAATATATATATTGAAAATCAAAGGAGGCAAAATTTTGACAGGGAAGGAAGTAA
CTGCAAAACACTAGGCTTTAGTAGGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAAAAAATGAAGACAC
TGAAATACAGACTTAAATAGCTCAGATAGCTAATTAGGAAATTTCAAGTTGGCCAATAATAGCATTCTCTTGAC
ATTTAAAAATAATTTCTATTCAAATACATGCATAATTGATTTTACACCTCATTACTGGTGGATAATTTATGTGA
TGTGGATTGCTGGTGTCCAGCATGACCATAAACAGGTGAGAAGATGATGGAATGTTTTAGAATAAACTCCTGC
TTATAGTATACTACACAGTTCAAAGATGTTTAAATGCTTTTGTATTTACTGCCATGTAATTGAAATATATAGA
TTATTGTAACCTTTCAACCTGAAATCAAGCAGTATGAGAGTTAGTTATTTGTATGTGTCACTAGTGTCTAATG
AAGCTTTTAAATCTACAATTTCTTCTTTAAAAATATTTATTAATGTGAATGGAATATAACAATTCAGCTTAATT
CCCCAACCTTATTCTGTGTGTAGACATTGTATTCCACAATTTGAATGGCTGTGTTTTACCTCTAAATAAATGAA
TTCAGAG

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FIGURE 2102

MGSVLGLCSMASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENE
KGVVPCNILVG YKAVYRLCFGLAMFYLLLSLLMIKVKSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGTFIT
VWFYVGMAGAFCFILIQVLVLLIDFAHSWNESWVEKMEEGNSRCWYAALLSATALNYLLSLVAIVLFFVYYTHPAS
CSENKAFISVNMLLCVGASVMSILPKIQESQPRSGLLQSSVITVYTMYLTSAMTNEPETNCNPSLLSIIGYNTT
STVPKEGQSVQWWHAQGIIGLILFLLCVFYSSIRTSNNSQVNKLTLTSDESTLIEDGGARSDGSLEDGDDVHRAV
DNERDGVITYSYSFFHFMLFLASLYIMMTLTNWRYEPSREMKSQWTAVVVKISSSWIGIVLYVWTLVAPLVLTNR
DFD

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FIGURE 2103

GGGGACCCCTCTCCTGACGCTGCGCTCTCTGCGAGGCAACCTTTCACGTCCATCGCTTGTTCATCTTAGGATCCCCA
TGTATATTTAGCCCAGATTGGCTAGTTCTGGGGAGGCAGCATGGTGGGACGATTCTGTCCCGAGTCCCCGCCAGG
CTTTGTTTCGGGTTCGCCGCTACCAGCGCGGTCTCCCTAGATCCTCCATCCGGGGAACCTCGCCCCGGGTGCGGGTA
CCCCGGGCGCGCAGCGCTGCCTCGAGGGTGTATGGATGCACCGCGCGCGGAGAGAGACCGGGGGCTGGGCCTG
GGAGACCCTAGCGGGGCGGGGGCGAAGAAGAGATTTATTCCAGTGAAACAACAACCTGGAACCTCAAGTAACCTC
TCCCAGAGTACTTCCAACCTCTGGGTGGCCCCAAATCCAATAATGCCACCACCAAGGCGGCTGGTGGTGCCTG
CAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTTCTGCATCTCTACTCTTAAGAGACTCAGGCCAAGAAA
CGTCTTCTAAATTTCCCCATCTTCTAAACCCAATCCAATGGCGTCTGGAAGTCCAATGTGGCAAGGAAAAACAG
GTCTTCATCGAATCTACTAATTCCACACCTTTTATTGACACAGAAAATGTTGAGAATCCCAAATTTGATTGATT
GAAGAACATGTGAGAGGTTTGACTAGATGATGGATGCCAATATTAAATCTGCTGGAGTTTCATGTACAAGATGAA
GGAGAGGCAACATCCAAATAGTTAAGACATGATTTCCCTGAATGTGGCTTGAGAAATATGGACACTTAATACTA
CCTTGAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTCAAGTTTCATTTGGTTCATTAATTCT
ATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATGATTCTATTTATATGTACATGAGAAGGAATCCAGGT
GTTACTGTAAATTCCTCAACGTATTGTTTCGACAGCACTAATTTAATGCCGATATACTCTAGATGAAGTTTACAT
TGTTGAGCTATTGCTGTTCTCTTGGGAACGAACCTCACTTTCCTCTGAGGCTTGGATTGACATTGCATTTGA
CCTTTTATGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCGAGATCCAAGCATCCTGAGC
AACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCTATCACCTGTTTCCATTCAACAAGAGCACTACA
TTCATTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAATGCTTTTATTATTA
TTATTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGCGATCTCAGATCAGTGTACCATTTG
CCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCG
GCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTACCATGTTGCCAGGCTGGTTTCGAACTCCTGACCTCAGG
TGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCGCGCCAGCCATCAAAATGCTT
TTTATTTCTGCATATGTTGAATACTTTTACAAATTTAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAACTT
GAAATTAAGAAGGCAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGAAGACTGGAAGCTAA
TTTGCAATTAATTCACAACTTTTATACTCTTTCTGTATATACATTTTTTTCTTTAAAAAACAACATATGGATCA
GAATAGCCACATTTAGAACACTTTTGTATCAGTCAATATTTTAGATAGTTAGAACCTGGTCTTAAGCCTAAA
AGTGGGCTTGATTCTGCAGTAAATCTTTTACAACCTGCCTCGACACACATAAACCTTTTAAAAATAGACACTCCC
CGAAGTCTTTTGTTCGCATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGCCACAGTAGTCTTG
ATGACCAAAGTCCTTTTTTCCATCTTTAGAAAACCTACATGGGAACAAACAGATCGAACAGTTTGAAGCTACTG
TGTGTGTGAATGAACACTCTTGCTTTATTCCAGAATGCTGTACATCTATTTTGGATTGTATATTGTTGTGTGA
TTTACGCTTTGATTTCATAGTAACTTCTTATGGAATTGATTGTCATTGAACACAACTGTAAATAAAAAGAAA

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FIGURE 2104

CAGAAGCGGCTAGTGGCGGCTGCCTGCGTCCCCAACCCCTCCGCGCAGCGCTCGCGACACGCGTGCCAGGAGTG
GGAGCGAGCGGCGGGGCCAGCTGCGTTCTGAGCCTGGGCGCAGCTGCCATCTGCTCTGGGAAGCACCAGGGTGTC
CCCGCCGCCCTCAGCTCGAAGTCAGCCACCATGGAGGCGCAGGCACAAGGTTTGTGGAGACTGAACCGTTGCAA
GGAACAGACGAAGATGCAGTAGCCAGTGCTGACTTCTCTAGCATGCTCTCTGAGGAGGAAAAGGAAGAGTTAAAA
GCAGAGTTAGTTCAGCTAGAAGACGAAATTACAACACTACGACAAGTTTTGTGAGCGAAAGAAAGGCATCTAGTT
GAGATAAAACAAAACTCGGCATGAACCTGATGAATGAATTAAAAACAGAACTTCAGCAAAAGCTGGCATGACATG
CAGACTACCACTGCCTACAAGAAAACACATGAAACCCTGAGTCACGCAGGGCAAAAGGCAACTGCAGCTTTTCAGC
AACGTTGGAACGGCCATCAGCAAGAAGTTCGGAGACATGAGTTACTCCATTTCGCCATTCCATAAGTATGCCTGCT
ATGAGGAATTCTCCTACTTTCAAATCATTGAGGAGAGGGTTGAGACAAGTGTCAAGCCTCAAGACGAAAGTA
GGCGGTACGAACCTAATGGAGGCAGTTTTGAGGAGGTCTCAGCTCCACGGCCCATGCCAGTGCCAGAGCTTG
GCAGGAGGCTCCCGGCGGACCAAGGAGGAGGAGCTGCAGTGCTTAAGTCCAGCCAGCGTGCAGCTGCATCCAGAAA
CCGGCCACTACCCAGCCCATCTCTGCCTGTGCTTATCCAGATAAGAAGACCAAAATCCCGCTGGGAAAAACCCAG
GCCTTGACATTGTTATTCAAATGGCCCCCTCCAGAAAGTTTAAATGATTTCCATTTGTATTTGTGTTGATGATGGAC
CACTTGACCATCACATTTCACTATTATAGATGACTGTCACATTTTAAATGTTCCCACTTGAGCAGGTACACAA
CTGGTCATAATTCCTGTCTGTGTAATTCGATGTATATTTTCCAAACATGTAGCTATTGTTTGCTTTGATTTTTG
CTTGGCCTCCTTTATGATGTGCATGTCCTGAAGGCTGAATGAACAGTCCCTTTCAGTTCAGCAGATCAACAGGA
TGGAGCTCTTCATGACTGTCTCCAGCAATAGGATGATTTACTATAAAATTCATCCAACACTACTTGTGATCTCTCTC
ACCTACATCAATTATGTATGTTAATTTAGCAATTAAGAATTGATTTT

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FIGURE 2105

MEAAQAGLLETEPLQGTDEDAVASADFSMLSEEEKEELKAELVQLEDEITTLRQVLSAKERHLVEIKQKLGNNL
MNELKQNFSSKSWHDMQTTTAYKKTHETLSHAGQKATAAFSNVGTAISSKFGDMSYSIRHSISMPAMRNSPTFKSF
EERVETTVTSLKTKVGGTNPNGGSFEEVLSSTAHASAQSLAGGSRRRTKEEELQC

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FIGURE 2106

GGAGTTGGAAGGGGAGGAGGAAGAGGGGGAGCAGGAAGAGGGGCAGAAGGAAGAAGAAGAGGGGGAGGAGAAAGA
GATAGAAGAGTAAGAGGAGGGGGAAGAAAGACAAGGGGAAGGGGAGGAGGAGGAGGACGGGGAGGAGCTTCGCCG
CGGCCTGCTCCGCCCAGCCGGGGTCGGTGGCCGCATGGCTTCGGTCTCCTCTGCGACCTTCTCGGGCCACGGGGC
TCGGTCCCTACTGCAGTTCTGCGGCTGGTAGGGCAGCTCAAGAGAGTCCCACGAAGTGGCTGGGTATACAGAAA
TGTCCAGAGGCCGGAGAGCGTTTTAGATCACATGTACCGGATGGCAGTTATGGCTATGGTGATCAAAGATGACCG
TCTTAACAAAGACCGATGTGTACGCCTAGCCCTGGTTTCATGATATGGCAGAAATGCATCGTTGGGGACATAGCACC
AGCAGATAACATCCCCAAAGAAGAAAAACATAGGCGAGAAGAGGAAGCTATGAAGCAGATAACCCAGCTCCTACC
AGAGGACCTCAGAAAGGAGCTCTATGAACCTTGGGAAGAGTACGAGACCCAATCTAGTGCAGAAGCCAAATTTGT
GAAGCAGCTAGACCAATGTGAAATGATTCTTCAAGCATCTGAATATGAAGACCTTGAACACAAACCTGGGAGACT
GCAAGACTTCTATGATTCCACAGCAGGAAAATTCAATCACCCTGAGATAGTCCAGCTTGTTTCTGAACCTTGAGGC
AGAAAGAAGCACTAACATAGCTGCAGCTGCCAGTGAGCCACACTCCTGAGACACTCTCTAAATTGCTGCACTCCT
GTAACAAACATTATTTTTCCATTTTCATTGTATTGTGTTTTGCCATTGTTGGTCTGTTGATTTCCCTAGATGTGAG
TCTGTTTGTTCATTGTCTGAACCTTCAGCAAGAAATGTGATACAACCTTGGGCACTAAAAGAAGCCACAGAACA
GGAAGCGGTCATGAAAGTGCCATGGATGAACACTGGAGGTGGCAGTGCCTGTTTATGAACATAAATAAATAT
TAAACACCTAAAATATTAGAAATTTTATTGGAGATTTAAATCATCTTATTCTGACTTAATTACCGATATCCCCG
AAGGCTAGGTTTCATTGAATAATAGAAAATTTTCATTATGATTGCTTTTAAGAACAGATTCTTCAGCTGATTTAGTG
ATAAGAATCCAGAAAAGAAAATGTACTAGTGATGTATTCTCTCCCCAGATGAAATTGCTGCCTTATTCAGATTTA
CTCTCTTGAGCCAGATTTTGAATTTCACTGCAGACTGCTTCAGACTTCTAATCATAGGCTTGTAACCTACTAAT
AGGCTCTGCCCTCTTCCCAATACTTTTTGTCAATTTAGAGATATAAACCGGGGCATATAAAAATGCAACTTGAT
TCCTTTGTATATTTTCCCTGTCTGACTTATAAATCTTGAGACCTTATTGTAAAAGCATGTATCATCAGGTGAG
AAATATAAATAGGAAGTGGGGTCATTGAGCCTCAGGTAGGGAATATATCAACCCGATTCTTCTCTCTTTTCCC
TTTTATAGGATAAATAATCC

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FIGURE 2107

GACGGCAGCCGCCCGGCCGACAGCCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACCGCCA
GCGCTCCAGGCCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCGCAGTGCCAACCATGACCGC
CGCCAGTATGGGCCCCGTCCGCGTCGCCCTTCGTGGTCTCTCTCGCCCTCTGCAGCCGGCCGGCCGTGGGCCAGAA
CTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGACGG
CTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCATGCGACCCGACAAA
GGGCCTATTCTGTCACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCCCTG
CATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCTTCCAGAGCAGCTGCAAGTACCAGTGCACGTGCCTGGA
CGGGGCGGTGGGCTGCATGCCCCCTGTGCAGCATGGACGTTTCGTCTGCCACGCCCTGACTGCCCTTCCCCGAGGAG
GGTCAAGCTGCCCGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCTGC
CCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCAGACCCAACTATGATTAGAGCCAACTGCCTGGTCCAGAC
CACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTACCAATGACAACGCCTCCTG
CAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGG
CAAAAAGTGCATCCGTAATCCCAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAGAC
ATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCACAGAACCACCACCCTGCCGGT
GGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATGATGTTTATCAAGACCTGTGCCTGCCATTACAA
CTGTCCCGGAGACAATGACATCTTTGAATCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAAGCCAGAG
AGTGAGAGACATTAACCTCATTAGACTGGAACTTGAAGTATTACATCTCATTTTTCCGTAAAAATGATTTTCAGT
AGCACAAGTTATTTAAATCTGTTTTCTAACTGGGGGAAAAGATTCCCAACCAATTCAAAACATTGTGCCATGTC
AAACAAATAGTCTATCAACCCAGACACTGGTTTGAAGAATGTTAAGACTTGACAGTGGAACCTACATTAGTACAC
AGCACCAGAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGGTACCAGCAGAAAGGTTAGTATCATCAGA
TAGCATCTTATACGAGTAATATGCCTGCTATTTGAAGTGAATTGAGAAGGAAAATTTTAGCGTGCTCACTGACC
TGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTCTTAAAGT
CAGAACAGCAGACTCAGCTCTGACATTCTGATTGCAATGACACTGTTTCAAGGAATCGGAATCCTGTGATTAGACT
GGACAGCTTGTGGCAAGTGAATTTGCCTGTAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGTG
TGTGTGTGTGTATATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTATTTTT
GTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGTCTGAT
CGTTCAAAGCATGAAATGGATACTTATATGGAAATTTCTGCTCAGATAGAATGACAGTCCGTCAAAACAGATTGTT
TGCAAAGGGGAGGCATCAGTGTCTTGGCAGGCTGATTCTAGGTAGGAAATGTGGTAGCCTCACTTTTAATGAA
CAAATGGCCTTTATTAATAAACTGAGTGACTCTATATAGCTGATCAGTTTTTTCACCTGGAAGCATTGTGTTCTAC
TTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAAGTTACATGTTTGCACCTTTCTAGT
TGAAAATAAAGTGATATTTTTTCTATAAA

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FIGURE 2108

CACTGCTGACATAACTCCCTTGGTCTTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTCAT
TTATAATTTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGATTCTGTTTGCATC
TCCCTGTCACGTGACACACCTAGATGTGTGTTACTTCAATTTAAATTTCTCAAATTTAATTTTGATTGCTTCAG,
CAGGGAAAATATCTCAATAATGTAAAAATAATTAAGGTCTATACATGGGTTGTATTTTTCTGGTTCACAACAGCA
CAAAGTGTCTTTCAATTTTTTTGTTGGTTTTCTTTTAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAG
TTTATTTGATACCTTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAATTAAGGATAGGTT
GTTTTACATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAACATAATTT
GGAAGAAGAGTATGAACAACCAATACCAATACCTATTGCGTTTGGATTCTTAAGACCCAGTTTGTATTCCACT
AACTAGTTATCTTAACCATATCATCTGGTTTTGTGGGCCATTATTTACCTTCCCTTATGCTTATAGAATAATG
GTTAATATTTTTAGGTCAAAATTAATTTTGGAAAGTAACTTTCCACAAATTAAGTGTTTTGAGCACCTGACAAA
ATTTAGTGTTTACCTTGCGTGCCATTTGTGTCTATCTTCAATTAAGCAATTTGGAGGTTTGCCAGTTATCTC
ACTCCCTTTTTAAATCAATGTTGTTTAAATGCACTAATCTGAATCTGTAAAGAGGATTATCTTAGTTTATACT
TTGTATTTTATAATGTTCTTGTATAGCAGCTCGGTACTGAAGGCGGTGTTAACTTGGCAAGCTCTGAGACTTCA
AATGGGAACAAATAGTAAGTAGCTAAGTAAACCACATCTTTGCAACCAAAATAAAGATGAGTTAAAGGTATCTG
GTTAGGCCATTTTCATGAGGACTATGCTCTGGTGGGACCACAGGTCACCTGATACTTAGTGCTGTGCTGCCGTGA
ACCTCAGCATGGAGACATCAACCATGCACTGTGGCCATTGAGCATCTTTCTGGAGCACCAGTTCACTCCAGGTT
TTTATTTAGGGTGTCTATCGATTTTACCTACTTTGTCTAGACTGGTAGAAGTTGCTTTGCATATCAGAAAACTCC
ATTTTTTCCACAAAAGGGATTACAGAAAATCTTTTGTGAGTGAGTGATTGGAACCTAGAGACTCCTGTTGCCA
GAATCAGACTGCCCTAGAACAGAATGGACAATGCAGGGAGGAGAATTCACACAAACAGCACCTGTTCTGAGGCC
GTGCCAGCCCACCAGGCCTGCTCAAATGTGGTCTTTACTTCAAGTGCACAGAGGCACATGAGGTTTCTGGTGATA
AACCAGCGTCTTACCCTGTTTTTAAAGTCCCATCCCCATGGCTTTTCAATCAGTTCGGTTTTTTTGCTGTACT
TGATAAAATGTTTATCTCATACAGGTCAAGTACATTTACTTCTATTACAGTGAGTACCAATAACAACAAAAG
CGCTTACAAATTTGGGGGGCGTGATTTTAGTACCTTTATTTGAAGTGTATCATTTTAAATTATTTATTTTAA
CTGGGGCAGTTATCAGTGGTTTAAACAGGAACCTTAGTGGCTTCAATTTGTTTAAAGAACATATTAAGTTTGAGG
GAAAAATTTCCCATGAAATATTTGGAACGTAAGAGTAGTATTGATTAGAGAAAAATTAATAAGAAACATAGTATG
GTAGCCAAATTTTTTAAAAATCTTGAACCTTTCTGTAGGTCAGTTTGAAGTGTGTAAGGTTGAGGTTGC
CCTGTGGAGATTAAATTAGAGTTGTTTTCATACTGACAGCATGGTGAATCCATTGAGTCAAAGTGAAGAATT
TCCTCATCAAGTGACTATACATTTGTTTTGTGTGCTCAAAGAAATACTCAAACACAGACTGATATTAACCAGC
CAGGTAAATGAACGACAATGTGGCATTAGGTATTGGCTGTTTATTGGTCTGTTAAATACTATGTTTTGCAATA
TGATTGATGGTAAAAGAGTGATGTATATGATACTAGAGTAGCTGTTTTTTTAGTAGGTGTGGGACCATCTCT
TTTACAAGTGCAACTCAGTCTAGGACAGCCATGGATGCAGTGTCTGGAGTTGGACCCTCTGAGCCCCTGGCTGC
CCCAGTAGCATCTGCATTGGTGACCAAGGACACTGCACTTTGAAGAGGTCGCCACTGGGTTATTTAGTGCTTCA
CTGCTTTTGTAAAAATTTGTAATTTTGTACACAAAAGTTGTGTTTTTGAATATCAATTGTTTAGACACACCT
ACAATGATAAATAAGTGCCCTTTAAAGGCCCTCTTCCATGAAATACATCTGTGTTTAGCAAGGAAAGTACAAA
ATAGTTTATGTAGTTGGTATAATTTTTATTGTGTCTTCATGTAGAAAAATGAATGTCATAATAAATATAAAA
CTTACGTAAG

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FIGURE 2109

MDNAGRRIHTNSTCSEACASPPGLLKGLYFKCTEAHEVSGDKPASRYRCFKVPSPWLSQSVFFLLYLIKCLFSY
RSSTFTSIHSEYPITTKALTNLGGVILVPLFEV

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FIGURE 2110

GTGACTGCTTAGAAAAC TGACAGCATCTGATGAAATTAGCGAATAAGAACATCAACCATGTCTTACACTCCAGG
AGTTGGTGGTGACCCCGCCCAGTTGGCCCAGAGGATCTCTTCTAACATCCAGAAGATCACACAGTGTTCTGTGGA
AATACAAAGAACTCTGAATCAACTTGGAACACCTCAAGATTCACCTGAATTGAGGCAACAGTTGCAACAGAAGCA
GCAGTATACTAACCAGCTTGCCAAAGAAACAGATAAGTACATTAAAGAGTTTGGATCTCTGCCCCACCACCCCCAG
TGAACAGCGTCAAAGGAAAATACAGAAGGATCGCTTAGTGGCAGAGTTTACAAACATCACTGACAAAACCTTCCAGAA
GGTCCAGAGGCAGGCTGCTGAGCGAGAGAAAGAGTTTGTGCTCGAGTAAGAGCCAGTTCCAGAGTGCTGCGCAG
TTTTCTGAGGACAGCTCAAAAGAAAGGAATCTTGTATCCTGGGAAAGCCAACTCAACCTCAAGTGCAGGTGCA
GGATGAAGAAATTACAGAGGATGACCTCCGCTTATTTCATGAGAGAGAATCTTCTATCAGGCAACTTGAAGCTGA
TATTATGGATATTAATGAAATATTTAAAGATTGGGAATGATGATTCATGAACAAGGAGATGTAATAGATAGCAT
AGAAGCCAATGTGGAATATGCAGAGGTGCACGTTTCAGCAAGCAAAATCAGCAGCTGTCAAGGGCAGCAGATTATCA
GCGCAATCCAGAAAAACCTGTGCATCATCATTCTTATCCTTGTCTATTGGAGTTGCGATTATCAGTCTCATCAT
ATGGGGATTGAACCACTGAAGTTATAAAGGAGCACACTGTGCGACTACATTGTCTAAATTATGTAGGAAGATTCC
TGTAATCATGTTTTTTTAAATTATTATTTTAAAGCTATTGTATAAAGGATGGTTCCCATACTTTGTTATTTTTATT
GGGGGGGTTGGGGTGGTTCCCTTTGGATTAAATCTGATATTTTCTAATACTGAAAGATTTTCTAAATGTCACTGCT
GACATAACTCCCTTGGTCTTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTTCAATTTATAAT
TTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGATTCTGTTTGCATCTCCCTGT
CACTGTGACACACCTAGATGTGTGTTACTTCAATTAAAATTCTCAAATTTAATTTTGATTGCTTCAGCAGGGAA
AATATTCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTGTGATTTTTCTGGTTCACAACAGCACAAAGTG
TCTTTCATTTTTTTGTTGGTTTTCTTTTAAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAGTTTATTT
GATACTCTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAAATTACTAAGGATAGGTTGTTTTTA
CATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAACATAATTTGGAAGAA
GAGTATGAACA

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FIGURE 2111

CTTTCCCTGCCGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGCTTCACCCGTAACCCA
CCGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGACGTTAATACTGCTTTACAAGAGGTCTGAAGA
CTGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAGCCTTAGACAAGCGCCAAGCCCATC
TTTGTGTGCTTGCAATCCAACCTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAA
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTTTGTAAAATTGACAGAGAGGGGA
AACCCCGTAAAGTGGTTGGTTGCAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA
TTGAAGAGTATTTCAAATGCAAGAAATTGAAGAAATAAATCTTTGGCTCACAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 2112

MAEEGIAAGGVMDVNTALQEVLTALIH DGLARGIREAAKALDKRQAHLCVLASNCDEPMYVKLVEALCAEHQIN
LIKVDDNKKLGEWVGLCKIDREGKPRKVVGCSVVVKDYGKESQAKDVIEEYFKCKK

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FIGURE 2113

GGCCGCCTCGCACCCGGAACAACAAAGCAAGGAAGACGGAGTCCGAGCCTCGGGGGCTCCTAGCAACGGGCCGGG
GCGGGAGTTCCATGGAGACTGGGGAGCGCGCCCGTCTCATCCTCATCCTTGTCCTCCAGCTTCTCCTTCGCATCC
GACGCAACCGGCAGCAGCGCTGCCGCCGCGTCTCAGCCACCGTCCCTCTTCCCACGGATGTGATCTTCGTGGT
GGAAAGCTAAATTTTAAACCACCCCAATGGATGCAGACAGTGATGTTGCATTGGACATTCTAATTACAAATGTA
GTCIGTGTTTTTAGAACAAGATGTCATTTAACTTAAGGAAGATTGCTTTGGAAGGAGCAAATGTAATTTATAAA
CGTGATGTTGGAGTAATATTAATGAAGCTTAGAAAACCTAGAATTACAGCTACAATTTGGTCCTCAGGAAAAAT
ATTTGCACTGGAGCAACAAGTGAAGAAGAAGCTAAATTTGGTGCCAGACGCTTAGCCCGTAGTCTGCAGAACTA
GGTTTTCAGGTAATATTTACAGATTTTAAGGTTGTTAACGTTCTGGCAGTGTGTAACATGCCATTTGAAATCCGT
TTGCCAGAATTCACAAAGAACAATAGACCTCATGCCAGTTACGAACCTGAACTTCATCCTGCTGTGTGCTATCGG
ATAAAATCTCTAAGAGCTACATTACAGATTTTTTCAACAGGAAGTATCACAGTAACAGGGCCCAATGTAAAGGCT
GTGCTACTGCTGTGGAACAGATTTACCCATTTGTGTTTGAAGCAGGAAAGAAATTTTATAATTCACCACTTAA
TTGTTAGAAATCTCTAACTGAGCACCTTTTAAACCTGCTGCACATTGGACTCAAAAGGAAAACCTGGACCAACAAT
AATTGAGGAAATAGACTCTTTTATTCATTACGGCTACAGTGTAAGCTCCAGTCCCTTTGGATTTTATTCCAAAC
CTTGCTGTAATATAAAAAGGAAGTTTACAAGACATGATATTGCTGCTTTTACAAAAGGACATTCTATTTATTTTCG
CAGTAATTCTCATGTCCCCATAAGCAGAGCTGTCACAGTGTGCACTACCTTAGATTGTTTTATTGTCGTCATTGT
TATTTTTTTCATTTGAGCTAATGTGTTTTATTTGTGAATAGTCTTTTACATTTTGTATGCTGAATATGGGCA
CCAAAGAACCTGTAAAAGTTATCTTTTCAATTGAATGTGCACAAATAAAAGTTTGA

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FIGURE 2114

GCCGGGGAGGGACGCAGGCAGGCGGGCGGGCAGCGGGAGGCGGCAGCCCCGGTGCGGTCCCCGCGGCTCTCGGCGGA
GCCCCGCGCCCGCCGCGCC**ATG**CCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTT
TGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACTTGGGGAAAAACAAGGTGGAC
CCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTA
TCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCTGAGCTCATCAAGGGTCC
TTGGACCAAGAAGAAGATCAGAGAGTGATAGAGCTTGACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGC
CAAGCACTTAAAGGGGAGAATTGGAAAAAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAA
AACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGGGGAACAGATGGGCAGAAAT
CGCAAAGCTACTGCCCTGGACGAACCTGATAATGCTATCAAGAACCCTGGAATTCTACAATGCGTCGGAAGGTCTGA
ACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCA
TTTGATGGGTTTTGCTCAGGCTCCGCCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAAACAACGACTA
TTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCCTGTAGCGTTACATGTAAATAT
AGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCG
AATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGCAGGTGCTACCAACACAGAA
CCACACATGCAGTACCCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACC
TGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGC
CTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGA
AACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAACTCAGACTTGGAAATGCCTTCTTT
AACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAGACCAGACTGTGAAAATCA
AAAGGAAAATACTGTTTTTAGAACCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACC
ATTCAAACATGCACTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCT
AGTAGAAGATCTGCAGGATGTGATCAACAGGAATCTGATGAATCTGGAATTGTTGCTGAGTTCAAGAAAATGG
ACCACCTTACTGAAGAAAATCAACAAGAGGTGGAATCTCCAAGTATAAATCAGGAACTTCTTCTGCTCACA
CCACTGGGAAGGGGACAGTCTGAATACCCAAGTTCACGCAGACCTCGCCTGTGGCAGATGCACCGAATATTCT
TACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTACAGTACCTAAAA
CAGGTCCCTGGCGAGCCCCCTTGCAGCCTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCA
GATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCACTG**AG**ACATTTC
CAGAAAAGCATTATGGTTTTTCAGAACTTCAAGTTGACTTGGGATATATCATTCTCAACATGAAACTTTTCAT
GAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCATTAGTTGAATGAAGT
CTTCTTGGATTTACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCTAAATTATTAGGTAATGAAT
TGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTAAAAAAAACATAAAATGATTTATCTGTATTTTAAAGGA
TCCAACAGATCAGTATTTTTCTGTGATGGGTTTTTGAATTTGACACATTAAAGGTACTCCAGTATTTTAC
TTTTCTCGATCACTAAACATATGCATATATTTTTAAAAATCAGTAAAAGCATTACTCTAAGTGTAGACTTAATAC
CATGTGACATTTAATCCAGATTGTAATGCTCATTATGGTTAATGACATTGAAGGTACATTTATTGTACCAAAC
CATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAGTTTTATAAAAAATTATATTTT
TATTAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGC
TGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAACTTGGTGTAGGTAATTGACTATGCACTA
GTATTTTCAGACTTTTTAATTTTATATATATATACATTTTTTTTCTTCTGCAATACATTTGAAAACTTGTTTGGG
AGACTCTGCATTTTTTATTGTGGTTTTTTTGTATTGTTGGTTTTATACAAGCATGCGTTGCACTTCTTTTTTGGG
AGATGTGTGTTGTTGATGTTCTATGTTTTGTTTTGAGTGTAGCCTGACTGTTTTTATAATTGGGAGTTCTGCATT
TGATCCGCATCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGAACCTGGGGA
GACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGA
GATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

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FIGURE 2115

MARRPRHSIYSSDEDEDFEMCDHDYDGLLPKSGKRHLGKTRWTREDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHNSTMRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQVLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSLGEGHSTPSLPADPGSLPEESASPARCM
IVHOGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGIVAEFQENGPPLLKK
IKQEVESPTDKSGNEFFCSHHWEGDSLNTQLFTQTSPVADAPNILTSSVLMAPASEDEDNVLKAFTVPKNRSLASP
LQPCSSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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FIGURE 2116

CTCCCTGTGCGCCGCGGAGGGGCGGGGGCAGGACGCGCAACTCCGGCCGGAGCTGTCCGGGGTCGTGAGCCGGCCC
CGCCTTGGTGGCGGCGCCCCCTCGCGGTCCAGAGGCAGACGCATCGGGTGGGCTCGGGTCTCCAGCCCGGCCGGG
AGGAGGGACCGGGTCTGCGGAGCGGGGACTCGGGGCCCTCGGCGGGGCGCGCACACGCAGGCGGGGCGGCCGGG
TGCGGGGCCCTCTGCGCGGCTGACCAGGCTCCCAGAGCGTCAGCGCGGCCATGGCCGAGCCGCTCCAGCCAGACC
CCGGGGCGGGCGAGGACGCGGCGGGCCCAAGCTGTGGAGACGCGGGCTGGAAGGCCCCGAGGACGCCGGCCCCC
AGCCCGGAAGTTATGAGATCCGACACTATGGACCAGCCAAGTGGGTGAGCACGTCCGTGGAGTCTATGGACTGGG
ATTGAGCCATCCAGACGGGCTTTACGAACTGAACAGCTACATTCAAGGCAAAAACGAGAAAGAGATGAAAATAA
AGATGACAGCTCCAGTGACAAGCTACGTGGAGCCTGGTTCAGGTCCTTTTAGTGAGTCTACCATACCATTTCCTC
TGTATATTCCCTCTGAACAGCAATTTGATCCACCCAGGCCCTTAGAGTCAGATGTCCTTCATTGAAGATAGAGCCG
AAATGACTGTGTTTGTACGGTCTTTCGATGGATTTTCTAGTGCCCAAAAGAATCAAGAACAATTTTGACATTAG
CAAGCATTTTAAGGGAAGATGGAAAAGTTTTCGATGAGAAGGTTTACTACACTGCAGGCTACAACAGTCCTGTCA
AATTGCTTAATAGAAATAATGAAGTGTGGTTGATTCAAAAAATGAACCCACCAAAGAAAACGAATGAGAAAAAT
GAAAGGAAGTTCTGCTGTCAGAGGCAAAACATCTGTTTATCATAGACATCAACATGACCTATAAGTAAAGTGCGT
GTCTAGTGCTTCTATTGAGAGTACTACTATTAATTAAGCTTATTTCCAATGTGCCTTTTAAATGCTTGAAGTTT
TATCTACATACACAGGTAACAGAGGACAGTAGTCTGTAAACATATAAATCGGTCATAACTATCGTGGTCTTTATT
TCGTGAGGATC

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FIGURE 2117

MAEPLQPDPGAEDAAAQAVETPGWKAPEDAGPQPGSYEIRHYGPAKWVSTSVESMDWDSAIQTGFTKLNSYIQG
KNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPPRPLESDVFIEDRAEMTVFVRSFDGFSSAQK
NQEQLLTLASILREDGKVFDEKVYYTAGYNPVLNRRNNEVWLIQKNEPTKENE

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FIGURE 2118

AGAACCACCACAACAAATAACCAGCCTGGCAGTCAATTCTTCCTATGGACTGGTGGTTTTTGGCAATTGCAATGG
CATTGCTATGGTTGACTACCTCCAGAAAGCAGTGCTGCTCAACCTGGGCACTATTGAATTATATGGCTCTAATGA
TCCTTATCGGAGAGAACCCGATCTCCTCGTAAATCTCGACAGCCTTCAGGAGCCGGTCTGTGTGATATTAGTGA
AGGGACTGTTGTTCCAGAGGATCGCTGCAAATCTCAACCTCTGCAAAGATGTCAAGGAAGTTAAGCTTACCTAC
TGACCTAAAGCCTGATTTAGATGTAAAGGATAACTCCTTTAGCCGATCACGGAGTTCAAGTGTAACAAGCATTGA
CAAAGAATCCCGAGAAGCGATCTCCGCTCTTCATTCTGTGAAACGTTTACTCGAAAGACGGACTCGTCCCCTTC
CCCTTGTCTATGGGTTGGAACAACGCTAGGAACAGTGCTTGTCAATTGCACTGAACCTTCCCCCAGGGGGAGAGCA
AAGACTTCTTCAGCCAGTAATTGTGTCTCCAAGTGGTACTATATTGAGGTTAAAAGGTGCAATCTTGAGAATGGC
ATTTCTGGATACCACAGGCTGCTTAATACCACCTGCGTATGAACCTGGAGAGAGCACAAATGTTCTGAGAAAA
AGACGAAAAGGAGAAATTGAAAAACGGCGGCCCTGTCTCAGTATCCCCCTCCTCTTCTCAGGAAATTAGTGAAAA
CCAGTATGCAGTGATATGTTCTGAAAAGCAAGCAAAAGTAATCTCACTGCCAACCAGAACTGTGCTTATAAGCA
AAATATTACAGAGACCTCGTTTGTGCTTCGTGGAGATATTGTAGCATTGAGTAACAGTATCTGCCTTGCCCTGTTT
CTGTGCCAATGGACATATAATGACTTTTAGTTTGCCAAGTTTAAAGACCTCTGTTGGATGTGATTACTTGCCCTT
TACCAATATGCCGATAGCCAGAACGTTCTGCTTTACCAACAATGGACAAGCATTATACCTTGTTTCACCTACAGA
AATCCAGAGACTTACTTATAGTCAAGAGACCTGTGAAAATCTTCAGGAAATGTTGGGTGAACCTCTTACTCCTGT
AGAAACACCTGAAGCACCAAACAGGGGATTCTTTAAAGGCTTATTTGGAGGTGGTGCACAACTCTCTTGACAGAGA
AGAACTATTTGGAGAATCGTCCTCAGGAAAGGCTTCAAGGAGCCTTGACAGCATATTCTTGCCCTGGTGGCAT
TGAAGGCGTAAAAGGGGCAGCATCTGGAGTTGTTGGTGAATTAGCACGAGCCAGGCTGGCACTAGATGAAAGAGG
GCAGAACTTGGCGATCTGGAAGAAAGAACTGCGGCCATGTTATCAAGTGCAGAGTCATTTCTAAACATGCTCA
TGAGATTATGTTGAAATACAAAGATAAGAAGTGGTACCAGTTCTGACAACCAGAAATCCAATAAGTCCAACCTCAG
CCAGAAGGAAAAAAGTTTTCCATTTTTATTACATTCTTTAGGAAAGTTAACGTTAAAGGGATGTTCTGCTACTGAA
TACTGTTCTTTCCTAGCACAGTCATGCACTGTTTTACCTCAGTCATGTGGCTTTAACTGAGGAGTGTTACACGC
ACTCGAAATGGAGTATATGGTGTGTGCCAGTTATGAGTTGACCATTGGGAATTAAACAGGTCACACGTGACAGA
TGAAGAAACCAAGGGGGCTGCTGAGGAGACCTGGTGCAGGGACTAATCCTGGATCATTCTGTATTAACTTTCA
TATGCCAAAAGGGTTTGTGCCGTTTTATCTGCCATCAGTGTTTGACCTGTTTAGGGCAGAGGCAATAAGTCAGAA
GTCTTGAAGTTGAAATAGTTATATGTGTGTCATTGGACTGGATTATAAACAGCTGTCTTGGACTTTCCCTCTCTT
AACACTGACTGGTCATCAGTATCATTAGTGAAAAAGAAACAAATTGTTTGTATCATCTCTTTAGACAGATAAGC
TGAATGGTGGGCTTTAAATAATAAAAACATACACATAGTTGACTTGTGTATGAGCTACTCTTGGAATCTTGTTAT
TATAGACTTGTATTTAGTTTCATATTTTGTCAAAAGCAAAACAAGAAGATACATCACTTTTCATTGAAAAGAAAAG
TGTAAGCATGACTGAATTGCTCATCTCTGGGAGTTTCCATGTAGTGGCTATGCAGTGTGGAAAGTGAGAAAA
ACCTCCATTGTGGTGGGAGAGATACTTCAATGTCCCTTGTCCTTGTCTCATTAATTCAGCTAAAGGTGGATTTG
ACCAAAATAATGCTGGTTAAATTTGTAGAAATGTTGAAATTGGCTGTGTTTTAAATTTTGCTTGAATTTTATAA
AATGTTTAAACCAATGTACCTTTGCATTCTTTAATTAAAATTGCTT

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FIGURE 2119

TTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAACTTAGGGGCCACGTGAGCCACCGC
CACGGCCGCATAGGCAAGCACCGGAAGCACCCGGCGGCCGCGTAATGCTGGTGGTCTGCATCACCACCGGATC
AACTTCGACAAATACCACCCAGGCTACTTTGGGAAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAGC
TTCTGCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAAC
AAGACTGGGGCTGCTCCCATCATTGATGTGGTGCGATCTGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCCC
AAGCAGGCTGTCACCGTGCAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAGAGTGTTGGGGGGGCC
TGTCCTGGTGGCTTGAAGCCGCATGGAGGGAGTTTCATTAAATGCTAACTACTTAAAAAAAAAAAAAGAAGAA
GAAGAAGAAGAAAAA

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FIGURE 2120

MP SRLRKTRKLRGHVSHRHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKHYHLKRNQSF CPTVNL
DKLWTLVSEQTRVNAAKNKTGAAP IIDVVRSGYYKVLGKGKLPQAVTVQAKFFSRRAEEKIKSVGGACVLVA

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FIGURE 2121

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCCGTGGCTCTGGCCCCCGGGCCGTTGGCCCAGCCCCGCGGCC
CTGAGCTCCGGTAGCCCCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAG
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGGTAAGGGTCGGGGCCGGGGGAGAGGCGTCAGAGCACATTCT
TGACTCTTCGTTTGACTTTTCCACTGCCCACACTACCCGAGTTTGAAACTCTTTACTCACTTGCAGCCGTTTTTA
TTTTGGATCAGAGGTCAGGACATCATTACGTGCTGTGATCCCATCCTCTCCTGTGGGCTCTCTTGTGCTCCTTTG
CCACGGCGCTCTGCCGCCTTTTACATGCTTATTAGTTGTGGACTCGGGCAAGAGCTCATTAGCTCAGCAAGGATA
AATAAGGCACTGTCCCTGTGATGGGCTCCACAGCGGTGTTTCTCAAAGTGTGGTGTGGAGACCCATTTGCAGTAG
TATCAGGGCAGTGCTTGTTAATAGCAGACTTAGGACTCAGAATCTCAGACCTATACGTGGGTAAAGGTACTAAAT
TGGGAAATTCAGTATGGCCTAAGTATAGAATAGGTGGGAGATGATGTCATAGAAACATGAAGCCAGAAAAATAGT
TAAGAACCTTGCAAGACAAAGAATTTGGATTTATTTTTATAGACCATGGAAAGTTAGCAAATGTTTTTAAGCAG
AGAATTCACGTCTTTGTAAAGAAAAGTTAATGGTGGCATGCGCTGAGGATAAATTGGAGTATTCTCCAGAAACGC
TGGTGGCTGACAGGCCAGGGAGGAGGCAGTTGAAACAATCCAAAGAAGAAATGGTGATAGGCATAGTTCTGACTC
ACAAAACATTTTGAGAAACAAGTTAGGATTTAGTGGCTTATGCCCTGAGAAGGATGAGGGAGAGAGTTAGTTCTA
AGAAAAGTCTTAGGTTTCTGGCTTCAGCACGAGTGGTACTGTTAATTAAGATGAAAGTATAAAAGTTGGACCGAA
TTTTTTAAAAGATGAGTTTGCATTGAATGCCATATTAAGTTAAAAATACCTGTGAAAAGGAATTCCAATAAG
ATATCTGTACTAGTCTAGGAGAAAAAATTACTGACATAGGAGAAAAATTGAGCCCAATAATCATATGAGAGCTC
TCGAGATATACAGTACGTGGTAAATTAAACCTTAGAAGTAGATGAGAACACTCAGGGAAAATGTGTTAAGATAGA
AACAAGTCTAACAAGGCCAGAAATACACAGTATTTGAGGAGCAGGCAGAGAAGAAGGCTATAAAAGGTCAAGAAA
AAAAACAGCCAGAGCTTTGTGACCCTGAAGTAGATAAAATAAATGAAGCTGTAGAAGCCAATAGAAAATTTCAAGAA
GTAAGAGATCCTTGCCAGGCGTGGTGGCTCACGCCCTCTAATTCAGCACTTTGAGAGGCTCAGGTGGGCCGATC
ACTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATGGCAAAACCCTGTCTCTACAAACAATGCAAAATTAGC
TGGGCATGGTGGTGGCTGCCTGTGGTCCCAGCTACTTGAGAGGCTGAGGTGGGAGAATCGCTTGAACCCGGGAGG
TGGAGGTTGCAGTGAGCCAAGATGGTGCCACTGCATTCCAGCCTGGGTGACAGCGCAAGACCCCTGCCTC

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FIGURE 2122

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCAGCCCCGCCGGCCC
CTGAGCTCCGGTAGCCCCGCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGC GGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAAC TGCTGAACGAGAAGGAG
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGATGAGAATGAAGATTTAAGGAAACTTGCAGAGAATGAAATC
ACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGAT
GAAAATGATTTGATCCTGGAAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTT
GATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATT TTTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGT
GGCCTTAGACATGCATCTGCCAGCATTGGGGGTT CAGAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTTAC
AGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCTCCATACTAGCACCATGACTGTAGCAATATTACCC
CAGCCTACTGAGATTAATCTGGTGATTAATCCGAAAGATT TGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGG
GGGCAGCATGTAAATACCACGGACAGTGCTGTCCGGATAGTT CATCTTCCAACAGGTGTTGTTTCTGAATGTCAA
CAAGAGAGATCTCAGCTGAAAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATCTA
GAAGAAGAAATAAATAAAAGACAGAA TGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGA
ACATATAATTTTCCACAGAACCGGGTCACAGATCACAGAATAACAAGACGCTGCATGATCTTGAAACTTTTATG
CAAGGAGATTATCTACTGGATGAACTTGTACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATT
ATTTCCCAAAAAGTTTAA

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FIGURE 2123A

CAAAAATCAGTCTGATCTCGGGAAACCTGGAGAAAATTTATTTCTGTACTCTAATGTTCTTTTCATTTTGGTGACC
ATCAAGGTGCTGGGAGAGGAATTAGATGGCTGTAATTCAAAGTTAATGGAATTAGATGCAGCAGTACAGAAATTC
TTGGAACAGAATGGCCAACTGGGTAAGCCACTGGCCAAGAAGATAGGAAAACCTGACTGAACTTCACCAGCAGACC
ATTAGACAAGCTGAGAATCGGCTCTCCAAGCTCAATCAGGCAGCATCACATTTAGAAGAATACAATGAAATGCTT
GAATTAATTTTGAAGTGGATTGAAAAAGCTAAAGTCTTGGCTCATGGAATATTGCATGGAATTCTGCAAGCCAG
CTTCGGGAACAATATATTTTTGCATCAGACCCCTGCTAGAAGAAATCCAAAGAAATTGACAGTGAGCTGGAAGCAATG
ACTGAGAAATTACAGTACCTCACTAGCGTGTACTGTACAGAAAAATGTCTCAGCAAGTGGCAGAACTGGGACGG
GAGACTGAGGAGTTGCGACAGATGATCAAAATTCGTTTGAGAACCTCCAAGATGCAGCTAAGGATATGAAAAA
TTTGAAGCAGAGTTGAAAAAGTTACAAGCTGCCCTTGGAGCAAGCCCAGGCAACACTGACTTCTCCAGAAGTTGGA
CGTCTCAGTCTCAAGGAGCAGCTCTCTCATCGGCAGCATTGTGTGTCTGAGATGGAGTCACTGAAGCCGAAGGTG
CAAGCAGTGACGCTCTGCCAGAGTGCCCTCCGGATCCCCGAGGATGTGGTTGCCAGCTTACCTCTCTGTCTATGCT
GCTCTGCGGCTGCAGGAAGAGGCCAGCCGGCTGCAGCACACCGCCATCCAGCAGTGTAACATCATGCAGGAAGCT
GTGGTACAATATGAACAATATGAGCAAGAAATGAAACATCTCCAGCAACTGATAGAAGGAGCTCACAGAGAGATT
GAGGATAAACCTGTTGCCACCAGTAACATACAGGAGCTGCAGGCTCAGATTTCTCGGCATGAGGAGCTGGCGCAG
AAAATTAAGGGCTACCAGGAGCAGATCGCTTCTTTGAATTCCAAGTGCAAGATGCTGACGATGAAAGCCAAGCAC
GCCACCATGCTGCTGACGGTGACCGAGGTGAGGGGCTGGCGGAAGGGACAGAGGACCTGGATGGGGAGCTCCTC
CCCACGCCCTTCGCCCCACCCCTCTGTGGTCATGATGACTGCAGGTGCTGTCTCACACTTTGCTGTACCCGTCCT
GAGGAGTCTGGGGAGGAGGGAACCAACAGTGAGATTTCTCTCCACCTGCCTGTCTGCTCCCTTACCTGTGGCT
AATACAGATGCTTCTGTTAACCAGGACATTGCATATTACCAAGCCTTGTCTGCTGAGAGGTGCAGACAGATGCT
GCAAAAATTCACCCAGCACATCCGCATCCAGGAGTTCTATGAACCGGGATTGGAGCCATCCGCTACTGCCAAA
CTGGGTGATTTGCAGCGTTCTTGGGAAACCTTAAAGAATGTGATCAGTGAGAAGCAGCGCACACTCTATGAAGCT
TTGGAACGCCAGCAGAAGTACCAGGACTCCCTCCAGTCCATCTCTACGAAGATGGAGGCCATTGAGCTGAAACTC
AGTGAGAGCCCAGAGCCTGGCAGGAGTCCAGAAAGCCAGATGGCTGAACATCAGGCATTGATGGATGAGATTCTC
ATGCTCCAGGATGAAATCAATGAGCTCCAGTCTCTCTCGCAGAGGAGCTGGTATCCGAGTCTTGTGAGGCCGAC
CCTGCGGAGCAGCTGGCCTTGCACTCCAGCTCACTGTCTTAGCCGAGCGAATGTCCACCATCAGGATGAAAGCC
TCGGGGAACGGCAGCTTTTGGAGGAGAAGTTGAATGATCAGCTGGAGGAACAAAGGCAGGAACAGGCCCTGCAG
AGGTATCGCTGTGAAGCCGATGAGCTGGACAGCTGGCTCTTGAAGTACCAAGGCCACTCTGGACACTGCGCTGAGT
CCACCCAAGGAGCCCATGGACATGGAGGGCCAGCTTATGGACTGCCAGAATATGCTGGTGGAAATAGAGCAGAG
GTGGTGGCTTTATCAGAAGTGTGAGTCCACAATGAGAACCTGCTGCTGGAGGGCAAAGCTCACACCAAGCAGAG
GCCGAGCAGCTGGCTGGAAAGCTGAGAAGGCTCAAGGGGAGCCTGCTGGAGCTGCAGAGAGCCCTGCATGATAAG
CAGCTCAACATGCAGGGAACAGCACAGGAGAAGGAGGAGAGCGATGTTGACCTAACAGCCACGAGAGCCCCGGC
GTCCAGGAATGGCTGGCCCAAGCTCGCACCATGAGCCAGCAGCGGACAGCAGTCTCCAGCAACAAAAGAG
TTAGAACAGGAATTAGCCGAGCAGAAGAGTCTCCTTCGCTCAGTAGCCAGTCTGTGGAGAGGAGATTCTAATTCAA
CATTGCGCGGCAGAGACCTCTGGTGTGCTGGCGAAAAACCTGATGTGTTATCCAGGAGTTGGGGATGGAAGGG
GAGAAATCATCCGCTGAAGACCAGATGAGAATGAAATGGGAAAGCCTACATCAAGAATTTAGTACCAAGCAGAAA
CTACTACAGAATGTTCTGGAACAGGAACAAGAGCAAGTGCTTTATAGCAGGCCAAATCGACTTTGTCTGGTGTG
CCACTGTACAAAGGGGACGTGCCAACCAGATAAATCTGCAGTTACATCTTGTCTGGATGGACTGAACCAAGCC
TTCGAGGAGGTTTATCCAGAGTGGAGGGGCAAAGAGGCAGAGTATACACTTGGAGCAGAAGTTGTATGATGGA
GTCTCAGCCACCTCTACTTGGTTGGATGACGTTGAAGAACGTTTATTTGTTGCCACAGCACTTTTACCAGAAGAA
ACAGAGACTTGTCTCTTCAACCAAGAGATTCTTGCCAAAGACATTAAGGAAATGTCTGAAGAAATGGATAAGAAC
AAAACTTGTTTTCCCAAGCTTTTCCAGAGAATGGTGATAATCGAGATGTTATGAAGATACTTTGGGTTGTCTT
TTGGGCAGGTTATCCTTGCTAGACTCAGTAGTGAATCAACGATGTCATCAGATGAAAGAAAGACTTCAGCAATA
CTAAATTTCCAGAATGATCTGAAAGTGTGTTTACATCACTGGCTGACAACAAATACATCATTCTGCAAAAACCTG
GCAAATGTGTTTGAACAGCCCGTAGCAGAACAAATAGAGGCAATACAACAGGCTGAAGATGGACTCAAAGAATTT
GATGCAGGAATCATTGAATTAAGAGGCGTGGTGACAAGCTACAGGTCGAGCAGCCGTCCATGCAAGAACTCTCC
AAGTCCAGGACATGTATGATGAGCTGATGATGATCATTGGCTCCCGAGGAGTGGTCTGAATCAGAACCTTACA
CTCAAGAGTCAGTATGAGAGGGCCCTACAAGATCTGGCTGCTAGAACTGGTCAAGGAGAAGATGGCAGGA
GACCAGAAAATCATCGTGTCTTCCAAAGAGGAAATCCAGCAACTACTTGACAAACATAAGGAATACTTTACAGGGC

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FIGURE 2123B

CTGGAATCTCATATGATCTTGACTGAAACACTCTTCAGAAAGATAATCAGCTTTGCAGTCCAAAAGGAAACCCAG
TTCCATACAGAGCTGATGGCTCAGGCTTCTGCTGACTGAAACGGGCTCACAAGAGGGGTGTGGAGCTGGAGTAC
ATTCTAGAGACGTGGTCCCATCTGGATGAGGACCAGCAGGAGCTCAGCAGACAGCTGGAGGTGGTGGAAAGCAGC
ATCCCAAGCGTGGGTCTGGTGGAGGAGAACGAGGACAGGCTTATTGACCGCATAACACTCTACCAGCATTTAAAA
TCTAGCCTTAATGAATACCAGCCCAAATTATATCAAGTATTAGATGATGGGAAACGACTTCTGATATCCATCAGC
TGCTCAGATCTAGAAAGCCAATAAATCAACTTGGAGAGTGTGGCTAAGTAACACCAATAAAATGTCTAAGGAA
CTTCACAGACTGGAAACAATATTGAAACACTGGACCAGATATCAAAGTGAATCTGCAGATCTAATTCAGTGGTTA
CAATCTGCAAAAGACCGGCTAGAATTTTGGACTCAGCAATCTGTGACAGTCCCACAAGAGCTGGAAATGGTCCGT
GATCATCTAAATGCTTTCTGGAGTTTTCTAAAGAAGTGGATGCCAATCTTCCCTGAAATCATCTGTTCTGAGT
ACTGGAATCAGCTCCTTCGACTAAAAAAGGTGGACACAGCCAGCTGCGCTCTGAGCTGTGCGCATTGATAGC
CAGTGGACTGACCTGCTAACCAATATCCCAGCCGTCCAGGAGAAGCTCCACCAGCTCCAGATGGATAAACTGCCT
TCCCGCCATGCCATTTCTGAAGTCATGAGTTGGATTTCTCTAATGGAAAATGTTATTGAGAAGGATGAAGATAAT
ATTAATAATTCATAGGTTACAAGGCAATTCATGAATACCTTCAGAAATATAAGGGTTTAAAGATAGACATTAAC
TGTAACAGCTGACAGTGGATTTTGTGAACAGTCCGTGCTACAAATCAGCAGTCAGGATGTGGAAAGTAAGCGT
AGTGATAAGACTGATTTTGTGAGCAACTTGGAGCAATGAATAAAAGTTGGCAAATCTGCAAGGTCTAGTAAT
GAGAAGATCCAGCTGTTGGAAGGCTTATTGGAATCTTGGTCAGAATATGAAAATAATGTACAATGTCTGAAAACA
TGGTTTGAAACCCAGGAAAAGAGACTAAACAACAGCATCGAATTGGAGATCAGGCTTCTGTTCAAAATGCACTG
AAAGACTGTCAGGATCTGGAAGATTGATTAAAGCAAAAGAAAAGTAGAGAAAATTGAGCAGAATGGACTT
GCTTTGATTGAGAACAAGAAAGACGCTCTAGCATTGTCTAGCAGCACTGCGAGAGCTCGGCCAAACCTGG
GCAAATTTAGATCACATGGTTGGACAATTAAGATACTGCTGAAATCAGTGTGTTGACCAATGGAGTAGTCACAAA
GTGGCCTTTGACAAGATAAACAGTTACCTCATGGAGGCCAGATACTCTCTTTCCCGATTCCGTCTGCTGACTGGC
TCCTTAGAAGCTGTGCAAGTTCAGGTGGACAATCTTCAGAAATCTCCAAGATGATCTGGAACCAAGGAAAGGAGC
TTACAGAAATTTGGCTCTATCACCAACCAATTATTAAGAGAGTGTCAACCCACCCGTGACAGAACTCTTACCAAT
ACACTGAAAGAAGTCAACATGAGATGGAATAACTTGTGGAAGAGATTGCTGAGCAGCTACAGTCCAGCAAGGCC
CTACTTCAGCTTTGGCAAAGATACAAGGACTACTCCAACAGTGTGCTTCGACAGTTCAGCAGCAGGAGGATCGA
ACCAATGAGCTGTTGAAGGCAGCCACAACAAGGACATTGCCGATGATGAGGTTGCCACATGGATTCAAGATTGC
AACGACCTCCTCAAAGGACTGGGCACAGTTAAAGATTCCCTCTTTTTCTCCATGAGCTGGGAGAGCAACTGAAG
CAACAAGTGGATGCTTCCGAGCATCAGCTATTCAATCGGATCAACTCTCTTTGAGTCAACACTTGTGTGCCCTG
GAGCAAGCTCTCTGCAACAGCAGACTTCAATCAGGCTGGAGTTCTTGATTATGAAACCTTTGCCAAGAGTTTA
GAAGCTTTGGAGGCTTGATAGTGAAGCTGAAGAAATACATAAGGGCAGGACCCTAGCCATCATCTGACCTC
TCCACAATCCAGGAAAGGATGGAAGAATTAAGGGACAGATGTTAAATTCAGCAGCATGGCTCCAGATTTAGAC
CGTCTAAATGAGCTTGATATAGGTTACCTTGAATGATAAGGAAATCAAAGAATGCAGAATTCGAACCGCCAT
TGGTCTCTGATCTCCTCTCAGACTACAGAAAGATTACGCAAGTTGCAGTCATTTTGCTACAACATCAGACTTTC
TTGGAAAAATGTGAAACATGGATGGAATTCCTAGTTCAGACAGAACAAAAGTTAGCAGTAGAGATTTAGGAAAT
TATCAGCACCTTTTGGAAACAGCAGAGAGCACAGAGTTGTTTCAAGCCGAGATGTTAGTCGTCAGCAGATTTTG
CACTCAATCATTATTGATGGGCAACGCTCTCTAGAACAAGGTCAAGTTGATGACAGGGATGAATTCACCTGAAA
TTGACACTCCTCAGTAATCAATGGCAGGGAGTGATTGCGAGGGCCAGCAGAGGCGGGGGATCATTTGACAGCCAG
ATTGCGCCAGTGGCAGCGCTATAGGGAGATGGCAGAAAAGCTTCGTAAATGGTTGGTTGAAGTGTCTACCTCCCC
ATGAGTGGTCTCGGAAGTGTTCTATACCACTGCAACAAGCAAGGACCCTCTTTGATGAAGTGCAGTTCAAAGAA
AAAGTGTCTTCTGCGGCAACAAGGCAGCTACATCTGACTGTGGAGGCTGGCAAGCAACTCCTTCTCTCGGCGGAC
AGTGGCGCTGAGGCGCCTTGAGGCCGAACTCGCTGAAATCCAAGAGAAATGGAAATCAGCCAGCATGCGGCTG
GAAGAACAGAAGAAAAAAGTAGCCTTCTTGTGAAAGACTGGGAAAAATGTGAGAAAGGAATAGCAGATTTCCCTG
GAGAAACTACGAACCTTCAAAGAAAGCTTTGCGAGTCTCTCCCGATCACCATGAAGAGCTCCATGCAGAACAA
ATGCGTTGCAAGGAATTAGAAAATGCAGTTGGGAGCTGGACAGATGACTTGACCCAGTTGAGCCTGTGTAAGGAC
ACCTCTCTGCTATATCAGTGTGATGATATCTCAATCTTAATGAACGCGTAGAGCTTCTGCAAGGCAGTGG
GAAGAACTATGCCACCAGCTCTCCTTAAGGCGGCAGCAATAGGTGAAAGATTGAATGAATGGGCAGTCTTCAGT
GAAAAGAACAAAGGAACTCTGTGAGTGGTTGACTCAAATGAAAGCAAAGTTCTCAGAAATGGAGACATTCTCATT
GAAGAAATGATAGAGAAGCTCAAGAAGGATTATCAAGAGGAAATGCTATTGCTCAAGAGAACAAAATACAGCTC

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FIGURE 2123C

CAACAAATGGGAGAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGAAAG
GTCAACGACCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTGAAGGAGACCCCTGGTAGCC
GTGCAGCAGCTTGATAAGAACATGAGCAGCCTGAGGACCTGGCTCGCTCACATCGAGTCAGAGCTGGCCAAGCCA
ATAGTCTACGATTTCCTGTAACCTCGGAAGAAATACAGAGAAAGCTTAATGAGCAGCAGGAGCTTCAGAGAGACATA
GAGAAGCACAGTACAGGTGTTGCATCTGTCTCAACCTGTGTGAAGTCCTGTGCACGACTGTGACGCCCTGTGCC
ACTGATGCCGAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGGCGGTGGAGAAACATTTGTGCTATG
TCCATGGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTGTGGCAGAAATTTCTGGATGACTATTACGTTTTT
GAAGATTGGCTGAAGTCTTCAGAAAGGACAGCTGCTTTTCCCAGCTCTTCTGGGGTGATCTATACAGTTGCCAAG
GAAGAACTAAAGAAATTTGAGGCTTTCCAGCGACAGGTCCACGAGTGCCTGACGCAGCTGGAAGTATCAACAAG
CAGTACCGCCGCTGGCCAGGGAGAACCAGCTGATTACAGCATGTAGCCTCAACAGATGGTTACGAAGGCAAC
CAGAGATGGGACAACCTGCAAAAGCGTGTACCTCCATCTTGCGCAGACTCAAGCATTTTATTGGCCAGCGTGAG
GAGTTTGAGACTGCGCGGGACAGCATTCTGGTCTGGCTCACAGAGATGGATCTGCAGCTCACTAATATTGAACAT
TTTTCTGAGTGTGATGTTCAAGCTAAAATAAAGCAACTCAAGGCTTCCAGCAGGAAATTTCACTGAACCACAAT
AAGATTGAGCAGATAATTGCCCAAGGAGAACAGCTGATAGAAAAGAGTGAGCCCTTGGATGCAGCGATCATCGAG
GAGGAACTAGATGAGCTCCGACGGTACTGCCAGGAGGTCTTCGGGCGTGTGGAAAGATAACCATAAGAAACTGATC
CGCTGCTCTCCCAGACGATGAGCAGCAGCTCTCAGACAGGGAGCTGGAGCTGGAAGACTCTGCAGCTCTGTCTG
GACCTGCACTGGCAGCAGCGCTCTGCAGACAGCCTGCTTTCTCCACAGCCTTCTTCCAATCTCTCCCTCTCGCTC
GCTCAGCCCTCCGGAGCGAGCGGTGAGGACGAGACACCCCGGCTAGTGTGGACTCCATCCCCCTGGAGTGGGAT
CACGACTATGACCTCAGTCGGGACCTGGAGTCTGCAATGTCCAGAGCTCTGCCCTCTGAGGATGAAGAAGGTGAG
GATGACAAAGATTTCTACCTCCGGGAGCTGTGGCTTATCAGGGGACCACAGTGCCCTAGAGTCACAGATCCGA
CAACTGGGCAAAGCCCTGGATGATAGCCGTTTTCAGATACAGCAAACCGAAAATATCATTGCGAGCAAAACTCCC
ACGGGGCCGGAGCTAGACACCAGCTACAAAGGCTACATGAACTGCTGGGCGAATGCAGTAGCAGTATAGACTCC
GTGAAGAGACTGGAGCACAACTGAAGGAGGAAGAGGAGAGCCTTCTGGCTTTGTAACTGTCATAGTACCGAA
ACCCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCAGGCATTGAGCAAGGAGTTGAGGATGAAG
CAGAACTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCTGGCTGGGGGACACGGAGGAG
GAGTTGGAACAGCTCCAGCGTCTGGAATCAGCACTGACATCCAGACCATCGAGCTCCAGATCAAAAAGCTCAAG
GAGTCCAGAAAGCTGTGGACCACCGCAAAGCCATCATCTCTCCATCAATCTCTGCAGCCCTGAGTTACCCAG
GCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGCTGGGACCGAGTGTGCTCT
CTGCTGGAGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTCCATGAAATGAGCCATGGT
TTGCTTCTTATGCTGGAGAACATTGACAGAAGGAAAAATGAAATGTCCCTATTGATTCTAACCTTGATGCAGAG
ATACITCAGGACCATCACAAACAGCTTATGCAAATAAAGCATGAGCTGTTGGAATCCCAACTCAGAGTAGCCTCT
TTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTAGAAGCCAAAGAAAAGTCCAT
GTTATTGGAATCGGCTCAAACCTTCTCTGAAGGAGGTCAGTCGTATATCAAGGAAGTGGAGAAGTTATTAGAC
GTGTCAAGTAGTCAGCAGGATTTGTCTTCTGCTCTTCTGCTGATGAAGTGGACACCTCAGGGTCTGTGAGTCCC
ACATCAGGAAGGAGACCCCAAACAGACAGAAAACGCCACGAGGCAAGTGTAGTCTCTCAGGCCTGGACCCCTCT
GTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCTCTCCCTTTCTGAGCCAGGGCCAGGTCCGTCC
GGCCGCGGCTTCTGTTGAGAGTCTCCGAGCAGCTCTTCCCTTCAGCTTCTCTGCTCTCTCTCATCGGGCTT
GCCTGCCTTGTACCAATGTCAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTTGCCCGGTCAATCCACCCC
ATGCTCAGATACAGGAATGGCCCTCCTCCACTCTGAACCTAAGCAGATGCCATCTGCAGAAGTGTGGTAGCATAA
GGAGGATCGGGTCATAAGCAATCCCAAACCTACCAACAAGAGGACCTTGATCTTGGCGAAAGCCCTCGGTGTGGCA
GCTTTAGCCCTCCTCCAGATCACATGTGTGCAAAATTATGGCTTCAGAGGTGGAAGATAAACAGTGACGGGGGAAC
AAACAGACAACAAGAAGGTTTGAAGAAATCTGGTTTGAGACTCTGAACCTTAGCATAAGGAGATTGAGTAAGG
ACCTCCAAAGTTCCCGGACTCATGAATTCTGGGCCCTTGCCCATTTCTGTGCACAGCCAAGGACTTCAGTAGAC
CATCTGGGCAGCTTTCCATGGTGTGTCTCAACCATCAGATAAATGACCCTCCCAAGCACCATGTCAGTGTCTG
ACAACTACCAACCAACAGTGTGTAAGAGATTTTAGAACCTTGTAACATACAATTTTTAAGAGCTTATATGGCA
GCTTCTTTTTTACCTTGTTTTCTTTGGGGCATGATGTTTTAACCTTTGCTTTAGAAGCACAGCTGTAAATCTA
AAAGGCACTTTTTTTTAGAGGTATAAAGAAAACTAGATGTAATAAATAAGATCATGGAAGGCTTTATGTGAAAA
AAGTTGAATGTTATAGT

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FIGURE 2124A

GCAGAGTCTGAGTCCCACTCCGCACCCCACCCTCTGTCTGGTACAGCTTACCAAACCAAAGTGCCCAAAGCCGTG
ACATCCCGGCCGCGGCTCGCAGGCCCCCGCCCTCCGCACGTCACGGCCGCGGGTGAGTGCCCCCTAGGGGCC
CCTGGGACGAGGAGGAAGCGCCAGGTCTTCCCGCCGCGCCGCGCCGCGCCCTGCTCCCCCTGGCACGCGC
CCCGCCGCCCTCGGCAGCCGCAGCTCCGTGTCCCCTGAGAACCAGCCGTCCCGCGCCATGGGCACGCGTCTGCCG
CTCGTCTGCGCCAGCTCCGCCGCCGCCGCCAGCCCCGGGGCCCTCCGCGCCGCTCCGTGTGCCCTGTGCGGCT
AGCAGCGGCGGCGGCGGAGGCGGCGGCGGTGGCCGGGAGGGCCTGCTTGGACAGCGGCGGCCGAGGATGSCCAG
GCCCCGAGCAGCTGCAGCCCCGGCGGCCGAACGCCCGCGGCGGGGACTCCATCGTCAGAGAAGTCATTGAGAA
TCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCTGCCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGT
GACGACAACCTTGATGCAGGAAATCAACCAGAAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTC
CCTCCAGATAGCAGTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTT
GCCCTTCAGATCTCTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGA
GTAACAGACATAAACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTGTTCACCTGTTGCCAAAGCT
GTAATTGAACCTTCTGAAAAATCAGTAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCATGGG
TCTTTGGAAGCTGCTCTACAATGCCTGTTCCAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAACACGC
CAGCTTCAAAGCAAGCTTCACGAGGCTGACATTGTGGTCTAGGCTCACCTAAGCCAGAAGAGATTCCCCCTTACT
TGGATACAACCAGGAACACTGTTCTCACTGCTCCCATGACTTCCTGTGAGGAAGGTTGGGTGTGGCTCTCCA
AGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATG
GTCAGTAGTGGAAGGAGATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACGTCTGAACTTCAGCCT
CTCTCCCCCTGTGCCAAGTGACATTGAGATTTCAAGAGGACAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAG
ATTGGATTGCTTGACAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAG
TTAAAGGATCAAGCAGATGGAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGAGAGAAGGGAAGAGC
ACAGTCACCATCGGGCTTGTGCAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCT
TCCCAAGGACCGACGTTTGGAGTGAAAGGAGGAGCCGCGGGTGGTGATATGCCAGGTCATCCCCATGGAGGAG
TTCAACCTTCACTTGACTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCGCTCGACACG
AGGATTCTTCATGAAAACACGCAACAGATAAGGCTCTGTATAATCGGCTGGTTCCCTTTAGTGAATGGTGTGAGA
GAATTTTCAGAAATTCAGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAA
GAGGAAGTGAGTAAATTTGCCGCTCTGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT
GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGAC
ATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGCTGGGA
AGGATGGTGGTGGCCAGTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACA
GTTTTGATGAAAGATGCAATAAAACCAAACCTGATGCAGACCTGGAAGGGACACCTGTGTTCTGTGATGCGGGC
CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAA
GGATTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCT
TCCGGCTTGGTGCCCAACGTGGTTGTGTTAGTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGGCCAAGT
GTAACGGCTGGTGTCTCTTAAGAAAGAATATACAGAGGAGAAACATCCAGCTGGTGGCAGACGGCTGCTGTAAC
CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGGTGGCTCTGAATGTCTTCAAGACCGAC
ACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCAC
TGGTCCGTTGGTGGAAAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAAGAGCCGATT
CAGTTCCTGTATGATGTTTCAAGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA
GATATTGAACTCTCTCCTGAGGCACAAGCCAAAATAGATCGTTTACACTCAACAGGGTTTTGGAAATTTGCCCATC
TGCATGGCAAAGACCCACCTTTCTCTATCTCACCACCTGACAAAAAGGTGTGCCAAGGGACTTCATCTTACCT
ATCAGTGACGTCGGGGCCAGCATAGGCGCTGGGTTCAATTTACCCTTTGGTGGAAACGATGAGCACCATGCCAGGA
CTGCCCCCGGCCCTGCTTTTATGACATAGATCTTGATAACGAAACAGAAAGTTAAAGGCTTGTCTTAAGTG
GACAAGGCTCTCACAGGACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTGTGCTGAGTTGGAGAAG
AAACTGAATTTGAAAAATGTCTGTTATGCAATGCTGGAGACATGGTGAATAGGCCAAAGATTTCTTCTCGTTC
AAGATGAATTTCTGTTCACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTA
TTTCTGTTTCTGTGAGTTTCCATTATTTCTACTGCTTACACTTTAGAAATGTTTATTTTATGGGGACTAAGGGAT
TAGGAGTGTGAACATAAAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATG

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FIGURE 2124B

GATCTAGAAAACC

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FIGURE 2125

MVSSGRRWLREQHRRWRLHCLKLQPLSPVPSDIEISRGQTPKAVDVLAKEIGLLADEIEIYGKSKAKVRLSVLE
RLKDQADGKYVLVAGITPTPLGEGKSTVTIGLVQALTAHLNVNSFACLRQPSQGPTFGVKGGAAGGGYAQVIPME
EFNLHLTGDIHAITAANNLLAAAIDTRILHENTQTDKALYNRLVPLVNGVREFSEIQLARLKIIRNWE

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FIGURE 2126

ACTCTTGGGAAAAGTCTGCTGGGCACCGTCGTCGCGCTGAAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGAT
GGCCTGGAAATCCGGCGGCGCCAGCCACTCGGAGCTAATCCACAATCTCCGCAAAAATGGAATCATCAAGACAGA
TAAAGTATTTGAAGTGATGCTGGCTACAGACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACA
ATCAATAGGTTTTCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTT
GCATGAAGGAGCTAAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGG
ATGTACTGGAAAAGTCATAGGAATTGATCACATTAAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGA
CGATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTGTGGGGGATGGAAGAATGGGATATGCTGAAGAAGC
CCCTTATGATGCCATTTCATGTGGGAGCTGCAGCCCCGTGTGTACCCAGGCGCTAATAGATCAGTTAAAGCCCGG
AGGAAGATTGATATTGCCTGTTGGTCCTGCAGGCGGAAACCAAATGTTGGAGCAGTATGACAAGCTACAAGATGG
CAGCATCAAAATGAAGCCTCTGATGGGGTGATATACGTGCCTTTAACAGATAAAGAAAAGCAGTGGTCCAGGTG
GAAGTGAATTTTATCTTCTGCTCTTTCTTCTTCCACACATGCAAGGGATGAATTGTAAAAGCAACATCAGCTTGAC
CAGTATAAAATTACAGTGGATTGCTCATCTCAGTCCTCAAAGCTTTTTGAAAACCAACACCATCACAGCTTGTTT
TGGACTTTGTTACACTGTTATTTTCAGCATGAAAATGTGTGTTTTTTAGGGTTTCTGATTCTTCAAAGAGGCAC
AGAGCCAAATTGGTAGAGGAAGGATGCAAAGTATAAATTTGTGTAATATTACTTTAACATGCCCATATTTTACTT
GGAAATATTAAAAGAAAGGGTTCTGTAAAATGGAAAAGTTAGTTTGTGAATTGATTTTGAGGAGTGGTTTTTCTT
TTCTTGACACTTAATTCTGTTCTGATATTAATTTATCAGATTGCTTTTGTGCATTGGATAACACCACCATTAC
AAGTTAAGATTCTTGGTATTTGGATATCTGTTAGATGCTACTAAGAAAATAGAGATGAGCTTTCTTTTAAAGCT
TTTGATGTGGTGTCATAGAATAGCATGTTGTAGATACAATCAGCTGCTTTGTTACCTTAAAGTGGCATTGTGA
AATATTAAACCTTAAGATGGCAGGTGATGTCCTGTAAACACTCAGCTGTTTTCAGATTGGACATAACTGACTTAGTT
CTTCCCTTCTCTCTCTCAAAATTATAGGAGACTTGTAGTTTAGTGTGGTTTTCTGTTTCTAATTGCTGCTGA
TAATGTATATGAAGTTAAGATGCTGTGTAAGCTGTGTCCTAGTTCTTGAACAGTTTATGCAGTGCTGCTTTGCCA
AATAAAGTTAAAAGTAAAAGAGGC

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FIGURE 2127

MAWKSGGASHSELIHNLRKNGIIKTDKVFVMLATDRSHYAKCNPYMDSPQSIGFQATISAPMHAYALELLFDQ
LHEGAKALDVGSGSGILTACFARMVGCTGKVIDHIKELVDDSVNNVRKDDPTLLSSGRVQLVVGDRMGYAE
APYDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAAGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDKEKQWSR
WK

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FIGURE 2128A

ACTCTGGCAAGTTGCGGGCGCGGGGAGCTGTGCGGGCAGCGGCCCTCGGGAGGACGTGGCCCCGGCCCCG
CCCCAGTGGGCCCCGACCCCTCATGGCCCTGAGCAAAGGGCTGCGGGCTGCTGGGGCGCCTGGGGGCCGAGGGGGAC
TGTAGCGTGCTGCTGGAGGCGCGCGGCCGCGACGACTGCCTGCTGTTGAGGCCGGCACGGTGGCCACGCTGGCT
CCAGAAAGAAAAGGAAGTCATTAAAGGACAGTATGGCAAGCTCACGGACGCGTACGGCTGCCTGGGGGAGCTGAGG
CTGAAATCTGGTGGCAGTCTCTGAGCTTCCTGGTGTGGTGACAGGCTGCACATCTGTGGGCAGAATTCCAGAT
GCTGAAATCTACAAAATCACTGCCACTGACTTTTACCCTCTTCAGGAAGAGGCCAAGGAGGAGGAACGCCTCATA
GCTTTGAAGAAAATCCTCAGCTCGGGGGTGTCTATTTCTCATGGCCAAACGATGGGTCTCGCTTTGACCTGACT
GTCCGCACGCAGAAGCAGGGGGATGACAGCTCTGAATGGGGGAACCTCTTCTTGAACACAGCTGTTGCACGTG
CCCTTGAGGCAGCACCAGGTGAGCTGCTGTGACTGGCTGCTGAAGATCATCTGCGGGGTGGTCACCATCCGCACC
GTGTATGCCTCCCACAAGCAGGCCAAGGCCCTGCCTCGTCTCTCGCGTTAGCTGTGAGCGCACAGGCACTCGCTTC
CACACCCGTGGCGTGAACGACGACGGCCATGTGTCCAACCTCGTGAGACAGAGCAGATGATTACATGGACGAT
GGAGTGTCTCTTTGTCCAGATCAGAGGCTCCGTTCCGCTGTTCTGGGAACAGCCAGGGCTTCAGGTTGGCTCC
CATCATCTGAGACTCCACAGAGGCTTGAAGCCAATGCCCTGCTTTCGACAGGCACATGGTGCTTCTGAAGGAG
CAGTACGGGCAGCAGGTGGTCTGTAACCTTCTGGGAAGCAGAGGCGGAGAGGAGGTGCTCAACAGAGCCTTCAAG
AAGCTGCTCTGGGCTTCTTGCCACGCGGGCGACAGCCTATGATCAATTTTGACTTCCATCAGTTTGCCAAAGGT
GGGAAGCTAGAGAAATTGGAGACCCTCTTGAGGCCACAGTTAAAGCTGCACTGGGAAGACTTCGATGTGTTTACA
AAGGGGGAGAAGCTCAGTCCACGTTTTTCAGAAAGGCACCTTGCGGATGAACGTGCTTGACTGCCTGGACCGAACC
AACACTGTGCAGAGCTTCATCGCGCTCGAGGTCTGCATCTGCAGCTCAAGACCCTGGGGCTGAGTTCAAAACCC
ATCGTTGACCGCTTTGTGGAGTCCTTCAAAGCCATGTGGTCTCTGAATGGCCACAGCCTGAGCAAGGTGTTTACA
GGCAGCAGAGCCCTGGAAGGGAAGGCCAAGGTGGGGAAGCTGAAGGATGGAGCCCGGTCCATGTTCTGAACCATC
CAGTCCAACCTTCTTCGACGGGGTGAAGCAGGAGGCCATCAAGCTGCTGCTGGTTGGGGACGTCTACGGCGAGGAG
GTGGCAGACAAAGGGGGCATGCTGCTGGACAGCAGCGCGCTCTGGTGACTCCCAGGATCTGAAAGCTATGACT
GAGCGTCAGTCCGAATTCACAAATTTCAAGCGGATCCGATTGCTATGGGGACCTGGAACGTGAACGGAGGAAAG
CAGTTCCGGAGCAACGTGCTCAGGACGGCGGAGCTGACAGACTGGCTGCTCGACTCGCCCCAGCTCTCGGGAGCT
ACCGACTCCCAGGATGACAGCAGCCAGCTGACATATTTGCTGTGGGGTTTGAAGAGATGGTGGAAATTGAGCGCA
GGGAATATTGTCAATGCCAGTACTACCAACAAGAAGATGTGGGGTGAACAGCTTCAGAAAGCCATCTCACGCTCT
CATAGATACATTCTGTTGACTTCGGCACAGCTGGTGGGCGTCTGCTTTATATCTTTGTACGTCCATACCATGTC
CCGTTTCATCAGGGACGTAGCCATCGACACAGTGAAGACGGGCATGGGGGGCAAGGGGGGAACAAGGGCGCCGTC
GGCATCCGCTTCCAGTTCCACAGCACCAGCTTCTGCTTCATATGTAGTCACCTGACGGCCGGGCAGTCCCAGGTG
AAGGAGCGGAATGAAGACTACAAGGAGATCACCCAGAACTCTGCTTCCCAATGGGGAGAAATGTTTTTCTCAT
GATTATGTATTTTGGTGTGGCGATTTCAACTACCGCATTGATCTTACTTATGAAGAAGTCTTCTATTTTGTATAA
CGCCAAGACTGGAAGAACTTCTGGAATTTGATCAACTACAGCTACAGAAATCAAGTGGAAAAATTTTAAGGAC
TTTCACGAAGGAGCCATTAACCTTTGGACCCACCTACAAGTATGACGTTGGCTCAGCCGCTACGATACAAGCGAC
AAATGCCGCACCCCCGCTGGACAGACAGGGTGTGTGGTGGAGGAAGAAACATCCCTTTGATAAAACAGCTGGA
GAACCTAACCTTCTAGACAGTGATCTAGATGTTGACACCAAGTCAGACACACCTGGTCTCCTGGTGCCCTGCAG
TATTATGGTCTGTGGGAGCTACAAGCGTCTGATCACAGACCTGTGCTGGCGATCGTGGAGGTGGAAGTTCAGGAA
GTCGATGTGGGTGCTCGGGAGAGGGTTTTCCAGGAAGTGTCTCCTTCCAGGGCCCCCTGGATGCCACTGTTGTA
GTAAACCTTCAATCACCGACCTTAGAAGAGAAAAACGAGTTTCCAGAGGACCTGCGTACTGAGCTCATGCAGACC
TTGGGGAGTTATGGGACAAATTGTTCTTGTGAGGATCAACCAAGGCGAGATGCTGGTAACTTTTGCAGACAGTCAC
TCGGCTCTCAGTGTCTTGACGTGGACGGTATGAAGGTGAAGGCAGAGCAGTGAAGATTAGACCGAAGACCAAG
GACTGGCTGAAGGTTTGGAGAGGAGATCATTCGAAACGAGACAGCATGGCCCCGTGTCTCCCACTGCCAAC
TCTTGTTTGTGAGGAGAACTTTGACTTCACAAGTTTGGACTATGAGTCAGAAGGGGATATTCTTGAAGACGAT
GAAGACTACTTGGTGGATGAATTCAATCAGCCTGGAGTCTCGGACAGTGAACCTCGGGGAGACGACCTCTCTGAT
GTCCCCGGCCCCACAGCACTGGCTCCTCCAGCAAGTCACCTGCTCTCACCAAAAAGAGCAGCATCCAACGTAC
AAAGATGACGCGGACCTGGTGGAGCTCAAGCGGGAGCTGGAAGCCGTGGGGAGTTCCGCCACCGTTCTCCGAGC
AGGTCTCTGTGCGTCCCAACCGGCCTCGGCCACCTCAACCCCCGAGAGACCCCCCTCCAACCGGTTTAATG
GTGAAAAAGTCGGCTTCAGATGCGTCCATCTCCTCCGGCACCCTATGGACAGTATTCAATTTTGCAGACGGCAAGA
CTTCTACCAGGAGCACCTCAGCAACCTCCAAGGCTCGGACTGGAATAAGTAAACCTTATAATGTCAAGCAGATC

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FIGURE 2128B

AAAACCACCAATGCCAGGAGGCAGAAGCAGCAATCCGGTGTCTCCTGGAAGCCAGAGGAGGTGCCTCCGAAGAA
GCCCTAAGTGCCGTGGCCCCAAGGGACCTTGAAGCATCCTCTGAACCAGAGCCCACACCGGGGGCAGCCAAACCA
GAGACCCACAGGCGCCCCCACTCCTTCCCGTCGGCCCCCACCAGAGTTCCCTGCCATCAAGAAGCCAACCTTG
AGAAGGACAGGAAAGCCCCCTGTACCGGAAGAACAGTTTGAGCAACAGACTGTCCATTTTACAATCGGGCCCCCG
GAGACAAGCGTTGAGGCCCCCTCTGTGCTGACAGCCCCCTCGAGTCCCTCCTGTTCCCAAACCAAGAACATTTTACG
CCTGGGAAAGCTGCAGAGAGGCCAAGCCACAGGAAGCCAGCATCAGACGAAGCCCCCTCCTGGGGCAGGAGCCTCT
GTGCCACCACCTCTGGAGGCGCCGCTCTTGTGCCCAAGGTACCCCCGAGGAGGAAGAAGTCAGCCCCCGCAGCC
TTCCACCTGCAGGTCTCTGCAGAGCAACAGCCAGCTTCTCCAGGGCCTCACTTACAATAGCAGTGACAGCCCCCTCT
GGGCACCCACCTGCCGCGGGCACCGTCTTCCCAAGGGGACTTTCTCAGCACTTCATCTGCTACAAGCCCCGAC
AGCGATGGCACCAAAGCGATGAAGCCAGAGGCAGCCCCACTTCTTGGTGATTATCAGGAACCCCTTCTGGAACCTT
CTTCACCACCCTAAACTGTTGAATAACACTTGGCTTTCTAAGAGCTCAGACCCCTTTGGACTCAGGAACCAGGAGC
CCCCAAAGAGATCCCATAGACCCAGTGTACAGTGGCGCTTACAGTCCCAAGGCAGAGCTGCCACCAGATCATGAA
CACAAAACCTTAGGTCACTGGGTGACAATCAGTGACCAAGAAAAGAGGACAGCACTGCAGGTGTTTGACCCACTG
GCAAAAACATGACTGAGCAGCTTGAAGGCTGCAGTCTATAGAATGCATACCTTCTCCCTCTAGACATCCCTC
CACCAGAAGAGACATCTATTTAAAGGCACACTGGCCAAAACGTTTGTGCATCTGTCACTCTCGTGTAGTTTACAA
AAATCGTGTCTTATTTCAGTAAGATGGTTACTCAGCCACCAAAATATATTTCACTCAAGGCTTGTACATCTGAA
GTTTGCTCTTCAAGGAATGGGAACCTTCTGTAAATTCGGTGTATGGATTTTAAGAAAGGAATCTAGCCAATGA
GGTCCAAGAAGTTCTCACCATTGAATTTTAAATGGCTGTTTCAGTTCATGTTGTACGTGATGGAGATTGTCTT
TTGTTTTATTGCAATTTTACAGATTTGGTATAACATTTTGGGGAGCCACCTGAAGGTTGATGTATAAAGTAAGGA
TTAGAGAAAGAGGTCGTTGTGACCATTAGTAGCTGTCTGGCCCACTTAAACAAGGTTACAAAAAATCAGAGTCG
GAAGCAGCCAAATAGGTCAACCTAATGACTAGACTGTACATTTCCCATGAGCCTTCATGTTAAGTGTGTACATGT
GCGTTAACCTTGATGATGCGTGAATCCCGAGGGAGCCGGTGGCATACACCGTTAGCTTAACCTTAGCTTAAACTA
GCTGAAGGCTCCTGTGCCATGTCTTAGACATTGCATGCCCTATCAATTACTATAATCCTGAGCCATGGTGTGCTA
CTGAAACCAATTTTATCCACCATCTAGTCCTTATTAATGAAACCTCACGGATCCTTGTTCGGCTTATATTCC
ATGCATACCACATAAAAGCACACAGTGCGAAAACCTTGTGTATACGCGATATTGATTCTCATTGTTAGAATATG
GAGATGTTTCAGCCTCGTCTGTCCGGCTGGAGCTTCGGGATGGAAAGTGCTATGTGTCCCTGCATATAAGAATC
ACCAGGCCAGTGTCTTCTGGGTTTGTCTGTCTATATGTTTGTCTATATTTTTTGCCTATACATTTTTCCACGTTT
CCAACAGCACTTCTCACCTATTCAATAACTGAAAAAGACATTACCATAGTGCTTTACATTTTTAAAGTAATGTTA
CAAGGTCTGGAATTCATTTGGAGCAGATACCGTGTCTTCGCTATTAAATAAGAAGTTCAGTAGTGAATCTTACT
GTACCGCTGTGTGATCTGGGAGCCTCGTACAGAGGCTCGCAGCAGCAGTGATCAAGTGTATCCCTTACGTGACT
GGGGGATCTGTCTCTAAAGCTGACTGTAGGATAGTAAGGATCATCTTGGCTGGGCTATGCCACTGTCTTGTT
ACCAATTAGACATCTGGAATTTTCAATATTAGTTTTCATTGTCACTGTCAAGATATATTGCAGATTACTTAAATAT
GGCCATCAAAAACAAAAGTTACAACACGTATCTTTTCATCTGAAAACATAATACCTGGAAAAGGATAAAAAAAA
AAGGAATCCGTGACCCACAGAGCTAGACAGATAAGATGCATAGTTGACCAGTCATAAAAGGCGGTGTTAGGTGA
TCAGGATGCCGTTGGTGGCATTTACGTGCTTTATATGATTTTTACCTCTGTAACAAACACAAGAAATAAACAGAA
TGGTCCTTAACAGAGTTTGGGGGAGAGAGCAAGATGGGTTCCCTGGGAGAAGCTGATTTGCCAAGATGCACATCGC
TATTAACAGCCAGAGTCATAAATGAAATGAAATGAAAGAAATTCATTCAAATGCTCTTTTCCCTATAACCTCTTTT
CTCACCAAAAAGGAGATAAATTTGAAAACAGATAAATGTAACAACAGTCAAAGAAGCAGGGGAAAAGTAAGCTC
CTCCAAAGTTGCTTGCAGTGCTGGAAATAGATCTCATTTTTAGGTTTTCTCTTCTGTTCCAGATACCAAAATAAATG
GGACAGAGAATAAAATTTTGTAAATATGTGCTCATCTCTTAAGTAGCTCTTCAGAGTCTGACCGTAAGTAAA
AACACACAGAATTGTGTTGACTGGGGGAGGTGAATCACAAAAAGTTACGAGGAGTTAAGAGTTAAATATTATT
TGATCGTGGCTGTCAAATTTAGTGAACAACATAGATTGGATTTGGAGTTGGTAGTGGTATGGTTCTCATACCAG
AATTCTCTTAAAAAAGGACAATTGGAATTGCCTTATTTATTTTTTAAATCAATGCTTACTAGTTGGT
AGGATTTCCAGGTGACGAGCAGGGTTGATTAAATAATCTTGACAAATGAGCAGCTGCCATCTTGGGGGATTTTCAAT
CTGTGGTTTTTTAAATGTTTCGTCTTTGATGTACCATCCAGGGCTTCTTATTGTGACCTTGTAGCCTATTTTGT
TCCTGCTGTICTTAACATGGTGCAGTTACGCGAGACTGGTTAGGTACTTCACAACTCACCATTGTCTCTCTGA
CCCCAAGCCTAGTCCCTTTTACATCACCATCTTCTCAGACTTCTTGCCTATTCTTAAATATGTTTTGGTTAATG
ATTGAATTAGGACATCAGCTTAAGCAATTCCTGTAACGGTTTAACGTTGTTGAAGTTCAAGGCACATAATAAAT

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FIGURE 2128C

TCTCCCTGATGTGTGTGTAAGTATAAAACAAAGTAATGTATCAAAGCGTTCACTTTATAATGAAGTCATTTCATTG
GGAAGGAAAGCTGCAAAGATTATTGGGGGACTAGTGATTAATAAAATCCTGTAATATTTTGAAGTGAAAATTG
TACTGAAATTGTACATGATACCTATTAAATGTTTTTGTCTTTTTT

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FIGURE 2129

MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKGQYGLTDAYGCLGELRLKSGGTS
LSFLVLVTGCTSVGRIPDAEIIYKITATDFYPLQEEAKEEERLIALKKILSSGVFYFSWPNDGSRFDLTVRTQKQG
DDSSEWGNSSFFWNQLLHVPLRQHQQVSCCDWLLKIIICGVVTIRTQYASHKQAKACLVSRVSCERTGTRFHTRGVND
DGHVSNFVETEQMIYMDDGVSSFVQIRGSVPLFWEQPGQLQVGSDDLRLHRLHGLEANAPAFDRHMLLKEQYQQQV
VNLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSP
RFQKGTLRMNCLDCLDRTNTVQSFIQALEVLHLQLKTLGLSSKPIVDRFVESFKAMWSLNGHSLSKVFTGSRLEG
KAKVGKLDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYGEVADKGGMLLDSTALLVTPRILKAMTERQSEFT
NFKRIRIAMGTWNVNGGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEVVELSAGNIYNAS
TTNKKMWGEQLQKAISSSHRYILLTSAQLVGVCLYIFVRPYHVPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFH
STSFCEICSHLTAGQSQVKERNEDYKEITQKLCFPMGRNVFSDYVFWCGDFNYRIDLTYYEEVFYFVKRQDWKKL
LEFDQLQLQKSSGKIFKDFHEGAINFGPTYKYDVGSAAQYDTSKCRTPAWTDRVLWWRKKHPFDKTAGELNLLDS
DLDVDTKVRHTWSPGALQYYGRAELQASDHRPVLAIIVEVEVQEVVDVGARERVFQEVSSFGQPLDATVVVNLQSP
LEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVDVDGMKVKGRAVKIRPKTKDWLKGRL
EEIIRKRDSMAPVSPTANSCLEENFDFTSLDYESEGDILEDDYLVDEFNQPGVSDSELGGDDLSDVPGPTAL
APPSKSPALTKKKQHPTYKDDADLVELKRELEAVGEFRHRSPSRSLSVPNRPRPPQPPQPPPTGLMVKKASD
ASISSGTHGQYSILQTARLLPGAPQPPKARTGISKPYNVKQIKTTNAQEAEEAIRCLLEARGGASEEALSAPV
RDLEASSEPEPTPGAAPETPQAPPLPRRPPPRVPAIKKPTLRRTGKPLSPQEQFEQQTVHFTIGPPETSVEAP
PVVTAPRVPPVPKPRTFQPGKAAERPSHRKPASDEAPPAGASVPPPLEAPPLVPKVPVPRRKSAPAAFLQVLQ
SNSQLLQGLTYNSSDSPSGHPPAAGTVFPQGDFTSTSSATSPDSGDKAMKPEAAPLLGDYQDPFWNLLHHPKLL
NNTWLSKSSDPLDSGTRSPKRDPIDPVSAGASAAKAELPPDEHKTGLHWVTISDQEKRTALQVFDPLAKT

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FIGURE 2130

AGGCAGGGCGGGCGGGCGCTCTAAGGGTTCTGCTCTGACTCCAGGTTGGGACAGCGTCTTCGCTGCTGCTGGATA
GTCGTGTTTTTCGGGGATCGAGGATACTCACCAGAAACCGAAAATGCCGAAACCAATCAATGTCCGAGTTACCACC
ATGGATGCAGAGCTGGAGTTTGCAATCCAGCCAAATACAACCTGGAAAACAGCTTTTTGATCAGGTGGTAAAGACT
ATCGGCCTCCGGGAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTACCTGGCTGAAGCTG
GATAAGAAGGTGTCTGCCCAGGAGGTTCAGGAAGGAGAATCCCCCTCCAGTTCAAGTTCCGGGCCAAGTTCTACCCT
GAAGATGTGGCTGAGGAGCTCATCCAGGACATCACCAGAACTTTTCTTCTCCAAGTGAAGGAAGGAATCCTT
AGCGATGAGATCTACTGCCCCCTGAGACTGCCGTGCTCTTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGAC
TACAACAAAGAAGTGCACAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGTGATGGACCAGCAC
AACTTACCAGGGACCAGTGGGAGGACCGGATCCAGGTGTGGCATGCCGAACACCGTGGGATGCTCAAAGATAAT
GCTATGTTGGAATACCTGAAGATTGCTCAGGACCTGGAAATGTATGGAATCACTATTTTCGAGATAAAAAACAAG
AAAGGAACAGACCTTTGGCTTGGAGTTGATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGTTAACCCCA
AAGATTGGCTTTCTTGGAGTGAAATCAGGAACATCTCTTCAATGACAAAAAGTTTGTCAATAAACCCATCGAC
AAGAAGGCACCTGACTTTGTGTTTTATGCCCCACGTCTGAGAATCAACAAGCGGATCCTGCAGCTCTGCATGGGC
AACCATGAGTTGTATATGCGCCGAGGAAGCCTGACACCATCGAGGTGCAGCAGATGAAGGCCAGGCCCGGGAG
GAGAAGCATCAGAAGCAGCTGGAGCGGCAACAGCTGGAAACAGAGAAGAAAAGGAGAGAAAACCGTGGAGAGAGAG
AAAGAGCAGATGATGCGCGAGAAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAGAAGACAAAGAAGGCA
GAGAGAGAGCTCTCGGAGCAGATTAGAGGGCCCTGCAGCTGGAGGAGGAGAGGAAGCGGGCACAGGAGGAGGCC
GAGCGCCTAGAGGCTGACCGTATGGCTGCACTGCGGGCTAAGGAGGAGCTGGAGAGACAGGCGGTGGATCAGATA
AAGAGCCAGGAGCAGCTGGCTGCGGAGCTTGCAAGATACACTGCCAAGATTGCCCTCTTGAAGAGGCGCGGAGG
CGCAAGGAGGATGAAGTTGAAGAGTGGCAGCACAGGGCCAAAGAAGCCCAGGATGACCTGGTGAAGACCAAGGAG
GAGCTGCACCTGGTGATGACAGCACCCCCGCCCCCACCACCCCCCGTGTACGAGCCGGTGAGTACCATGTCCAG
GAGAGCTTGCAGGATGAGGGCGCAGAGCCCACGGGCTACAGCGCGGAGCTGTCTAGTGAGGGCATCCGGGATGAC
CGCAATGAGGAGAAGCGCATCACTGAGGCAGAGAAGAACGAGCGTGTGCAGCGGCAGCTGCTGACGCTGAGCAGC
GAGCTGTCCCAGGCCGAGATGAGAATAAGAGGACCCACAATGACATCATCCACAACGAGAACATGAGGCAAGGC
CGGGACAAGTACAAGACGCTGCGGCAGATCCGGCAGGGCAACACCAAGCAGCGCATCGACGAGTTCGAGGCCCTG
TAACAGCCAGGCCAGGACCAAGGGCAGAGGGGTGCTCATAGCGGGCGTGCCAGCCCCGCCACGCTTGTGTCTTT
AGTGCTCCAAGTCTAGGAACTCCCTCAGATCCCAGTTCCTTTAGAAAGCAGTTACCCAACAGAAACATTCTGGGC
TGGGAACCAGGGAGGCGCCCTGGTTTGTTCCTCCAGTTGTAATAGTGCCAAGCAGGCCTGATTCTCGCGATTAT
TCTCGAATCACCTCCTGTGTGTGTGCTGGGAGCAGGACTGATTGAATTACGGAAAATGCCTGTAAAGTCTGAGTAA
GAACTTCATGCTGGCCTGTGTGATACAAAGAGTCAGCATCATTAAAGGAAACGTGGCAGGACTTCCATCTGTGCC
ATACTTGTCTGTATTCGAAATGAGCTCAAATTGATTTTTTAATTTCTATGAAGGATCCATCTTGTATATTTAC
ATGCTTAGAGGGGTGAAAATTATTTTGGAAATTGAGTCTGAAGCACTCTCGCACACACAGTGATTCCCTCCTCCC
GTCACCTCCAGCGAGCTGGCAGAGAGCACAGTGATCACCAGCGTGAGTGGTGGAGGAGCACTTGGATTTTTTTT
TTGTTTTTTTTTTTTTTTGTCTAACAGTTTTAGAAATACATTGTACTTATACACCTTATTAATGATCAGCTATATA
CTATTTATATACAAGTGATAATACAGATTGTAACATTAGTTTTTAAAAAGGGAAAGTTTTGTTCTGTATATTTTG
TTACCTTTTACAGAATAAAAGAATTACATATGAAAAACCTCTAAACCATGGCACTTGATGTGATGTGGCAGGAG
GGCAGTGGTGGAGCTGGACCTGCCTGCTGCAGTCACGTGTAACAGGATTATATTAGTGTTTTATGCATGTAAT
GGACTATGCACACTTTTAATTTTGTGATTCACACATGCCACTATGAGCTTTCAGACTCCAGCTGTGAAGAGAC
TCTGTTTGTCTGTGTTTGTGTTTGTGAGTCTCTCTCTGCCATGGCCTTGGCAGGCTGCTGGAAGGCAGCTGTG
GAGGCCGTTGGTTCCGCCCACTCATTCTCTCTGTCAGTCTTCTCTCTTCTCCTTACAGCTAAGATGCCATGTGCAGG
TGGATTCCATGCCGAGACATGAAATAAAAGCTTTGCAAAGGCA

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FIGURE 2131

ATCTTCCGGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCTGACATATGTTCTCTAGGCCT
TTTAGAAAACATGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTCACCATGGCAAACTGGGAGTCTA
CGATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAA
TGTGCGTATTGAGCACATTACGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAA
AAAGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTTCAAGCTAAAGCGCCAGCCTGCTCCACCCAGAGAAACACACTT
TGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATTAATTCATGGCATAATAGGTGTTAAA
AAGAAAAATAAA

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FIGURE 2132

GGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCCG
CGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCCTGTCCAGGACCTGGGCTCCACTGTCATCA
AAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTTCATCTTTGGACATGTCTTGGCAGCAG
GCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATCCCTACTCTGTTCCAGCATGGAGCTGCC
AGATGATCTGTGGGTGAGGCCTAAAAGCTGTGTGCCTTGCAAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTG
TGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGATAGGTG
AGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTCACAACTGTCATATGGGTATTACAG
CTGAAAATGTAGCCAAAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAGGA
CAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAGATTGTACCAGTTTGGTGTCAACTAGAAAAGGTCTTA
TTGAAGTTAAACAGATGAGTTTCCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTC
TTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTCGTTCTTA
TGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGG
AGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAG
ATGTTGACATATTTGAAATCAATGAAGCCTTTGCAGCTGTCTCTGCTGCAATAGTTAAAGAACTTGGATTAAACC
CAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTGCAATTCTTG
TGACCCTGTTACACACACTGGAGAGAATGGGCAGAAGTCGTTGGTGTTCAGCCCTGTGCATTGGGGGTGGGATGG
GAATAGCAATGTGTGTTGAGAGAGAATGAATTGCTTAAACTTTGAACAACCTCAATTTCTTTTAAACTAATAAA
GTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTCTTACATCACAAAACCCAA
GTTTACAGCTTGACTTTACTTTAATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTAT
AAATAAAAGGAACATCAGATCAATCATT

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FIGURE 2133

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASV
GAGIPYSVPAWSCQMICGSGLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDG
LTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTEAQAAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHG
SNIEAMSKLKPYFLTDGTGTPTPANASGINDGAAAVVLMKKSEADKRGLTPLARIVSWSQVGVPEPSIMGIGPIPA
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLHTLERMGR
SRGVAALCIGGGMGIAMCVQRE

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FIGURE 2134

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCTTTGTCCGTGTTCCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAAACAGAAAATTTCATCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACAGATGAACTG
GGAAGAGATTGCCTGATTAACTGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGAATAAATGGTGATTTCTTT
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAAC
TCTGTTAATATTTTGAAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCCTTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAGGAGAGAATTGAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCACTGGTGGGAATTGAT
GATATGTGTCGAAATATTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCGTCATCGATTATCTTACGTGGGGCAAATGATTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACTTTGTGTAGTGAAGAGAGTTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAACTATGCAACCAGCATGGGGTCTCGGGAACAGCTTGGGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGGCCAGGTTAACCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGATAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTCTTTTATTATAACAATGTTAAA
TGCAATTGCTTGTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTGGGTTTTGTGA
TGTAGGAAATGGTTTCCATCTGTACTTTGGTCCCTCTGATTTACATATTGCAACCTAGTACTTTATTAGTTAAA
AAGAAATTGAGGTTGTTCAAAGTTTAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCACCCCCA
ATGCACAGGGCTGCAACACCACGACTTCTGCCATTCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

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FIGURE 2135

TTTGCTTTTGCTTATTTCCGTCCATTTCCCTCTCTGCGCGCGGACCTTCCTTTTCCAGATGGTGAGAGCCGCGGG
GACACCCGACGCCGGGGCAGGCTGATCCACGATCCTGGGTGTGCGTAACGCCGCCCTGGGGCTCCGTGGGCGAGGG
ACGTGTGGGGACAGGTGCACCGGAAACTGCCAGACTGGAGAGTTGAGGCATCGGAGGCGCGAGAACAGCACTACT
ACTGCGGCGAGACGAGCGCGGCGCATCCCAAAGCCCGGCCAAATGCGCTCGTCCCTGGGAGGGGAGGGAGGCGCG
CCTGGAGCGGGGACAGTCTTGTTCCGCGCCCTCTCCCGGTCTGTGCGGGACCCGGGACCCGGGAGCCGTGCG
AGGTCTCGGTCCAAGGGGCCCTTTTCTCGGAAGGGCGGCGGCCAAGAGCAGGGAAGGTGGATCTCAGGTAGCGA
GTCTGGGCTTCGGGGACGGCGGGGAGGGGAGCCGGACGGGAGGATGAGCTCCCTGGCACCGAGAGCGCGGAAA
GAGCCTGCAGTACCGAGTGGACCACCTGCTGAGCGCCGTGGAGAATGAGCTGCAGGCGGGCAGCGAGAAGGGCGA
CCCCACAGAGCGCGAACTGCGCGTGGGCCTGGAGGAGAGCGAGCTGTGGCTGCGCTTCAAGGAGCTCACCAATGA
GATGATCGTGACCAAGAACGGCAGGAGGATGTTTCCGGTGCTGAAGGTGAACGTGTCTGGCCTGGACCCCAACGC
CATGTACTCCTTCCTGCTGGACTTCGTGGCGGCGGACAACCACCGCTGGAAGTACGTGAACGGGGAATGGGTGCC
GGGGGGCAAGCCGGAGCCGCAGGCGCCAGCTGCGTCTACATCCACCCGACTCGCCCAACTTCGGGGGCCACTG
GATGAAGGCTCCCGTCTCCTTCAGCAAAGTCAAGCTCACCAACAAGCTCAACGGAGGGGGCCAGATCATGCTGAA
CTCCTTGCCATAAGTATGAGCCTCGAATCCACATAGTGAGAGTTGGGGGTCCACAGCGCATGATCACCAGCCACTG
CTTCCCTGAGACCCAGTTTCATAGCGGTGACTGCTTATCAGAACGAGGAGATCACAGCTCTTAAATTAAGTACAA
TCCATTTGCAAAGCTTTTCCTTGATGCAAAGGAAAGAAGTGATCACAAAGAGATGATGGAGGAACCCGGAGACAG
CCAGCAACCTGGGTACTCCCAATGGGGGTGGCTTCTTCTGGAACCAGCACCCCTGTGTCCACCTGCAAATCCTCA
TCCTCAGTTTGAGAGGTGCCCTCTCCCTCCCTCCACGCACAGCTGTGACAGGTACCCAACCTGAGGAGCCACCG
GTCCTCACCTTACCCAGCCCCATGCTCATCGGAACAATTCTCCAACCTATTCTGACAACTCACCTGCATGTTT
ATCCATGCTGCAATCCCATGACAATTGGTCCAGCCTTGGAAATGCCTGCCCATCCCAGCATGCTCCCGTGAGCCA
CAATGCCAGCCACCTACCAGCTCCAGTCAGTACCCAGCCTGTGGTCTGTGAGCAACGGCGCCGTACCCCGGG
CTCCAGGCAGCAGCCGTGTCCAACGGGCTGGGGGCCAGTTCTTCCGGGGCTCCCCGCGCACTACACACCCCT
CACCCATCCGGTCTCGGCGCCCTCTTCTCGGGATCCCCACTGTACGAAGGGGCGGCGCGGCCACAGACATCGT
GGACAGCCAGTACGACGCCGAGCCCAAGGCCGCTCATAGCCTCATGGACACCTGTGTGCCACCTTCCATGTG
AAGCAGCAAGGCCAGGTCCCGAAAGATGCAGTGACTTTTGTGCTGGCAGCCAGTGGTGACTGGATTGACCTAC
TAGGTACCCAGTGGCAGTCTCAGGTTAAGAAGGAAATGCAGCCTCAGTAACTTCCTTTTCAAAGCAGTGGAGGAG
CACACGGCACCTTTCCCCAGAGCCCCAGCATCCCTTGCTCACACCTGCAGTAGCGGTGCTGTCCAGGTGGCTTA
CAGATGAACCCAACTGTGGAGATGATGCAGTTGGCCCAACCTCACTGACGGTGAAAAAATGTTTGCCAGGGTCCA
GAAACTTTTTTTGGTTTATTTCTCATAAGTGTATTGGCACTTTGGCACACCAGAATTTGTAACTCCACCAGT
CCTACTTTAGTGAGATAAAAAGCACACTCTTAATCTTCTTCTTGTGCTTTCAAGTAGTTAGAGTTGAGCTGTT
AAGGACAGAATAAAATCATAGTTGAGGACAGCAGSTTTTAGTTGAATTGAAAATTTGACTGCTCTGCCCCCTAGA
ATGTGTGATTTTTAAGCATATGTAGCTAATCTCTTGTGTTGTTAACTATAACTGTTTCAIATTTTTCTTTTGAC
AAAGTAGCCAAAGACAATCAGCAGAAAGCATTTTCTGCAAATAAACGCAATATGCAAAATGTGATTCTGTCAGT
TATTAGTGAAGCCCCCTCCTTTTGTGAGTATTTACTGTTTATTG

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FIGURE 2136

MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRRMFPVL
KVNVSGLDPNAMYSLDFVAADNHRWKYVNGEWPVGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVCLTN
KLNGGGQIMLNSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIQAVTAYQNEEITALKIKYNPFAKAFDAKERSD
HKEMMEEPGDSQQPGYSQWGWLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSPYPSPYAHNRNS
PTYSDNSPACLSMLQSHDNWSSLGMPAHPSMLPVSHNASPPTSSSQYPSLWSVSNQAVTPGSQAAAVSNGLGAQF
FRGSPAHTYPLTHPVSAFSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSM

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FIGURE 2137

CGCAGCCGTGCGATGTTGTCTCTACAGCCATGTATTGCGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT
TACAAATTAACAGACAAAACAGTCATTGGATGCAGCGGTTTTCATGGAGACTGTCTTACGCTGACAAAGATTATT
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT
ACAATCCTGTATTCAAGGCGCTTCTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC
ATGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAACTGTTTCCTTAAGGAAGGACTGATCTGTGTGCTCT
TATCACCAATCAGTTCAGACCTGGTIGATTTTGTACTTTGGAAGTGTACCTTGGATGGTTTTGTTTATTAAAA

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FIGURE 2138

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY
SFDPVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDA LRICI
VKEGIREETVSLRKD

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FIGURE 2139

GCTCCCAGCCGGGCCCCCTCAGCGGTGCGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCCGCCGCGGGGGC
CGAGTCGCGAAGCGCGCCTGCGACCCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCC
TGCGAAGGTGCGGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAAGCATTGCTGGTATTTGGA
AGGACTCTATCCAACCTATTATATATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCT
CTCCATACAGTGGCTGTGGTACTTCTGGTTCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTT
CATCCGGAGGCGCATGTACCCCCCGCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCC
AAATCCCGGCCAGGAGCCAGCAGCCGGGGCCACCCTATTACACCGACCCAGGAGGACCGGGGATGAACCTGT
CGGGAATTCCATGGCAATGGCTTTCAGGTCCCACTCACTCAGGGGAGTGTGGCTGCCCGCCCCCTCC
AGCCTACTGCAACACGCCTCCGCCCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGA
GGAGAGACAGGAGAGGGCCCTTTCCTGGCCTTCTGTCTTCTGTGATGTTCACTTCCAGGAACGGTCTCGTGGGC
TGCTAAGGGCAGTTCTCTGATATCCTCACAGCAAGCACAGCTCTCTTCAGGCTTTCATGGAGTACAATATAT
GAACTCACACTTTGTCTCTCTGTGCTTCTGTTTCTGACGCAGTCTGTGCTCTCACATGGTAGTGTGGTGACAG
TCCCCGAGGGCTGACGTCTTACGGTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGT
GGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCAGGCAAGCATCTTCTGCCCGGGTATTAAATAGG
AAGCCCCACGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAGCCAGCAGGTCTCTGCTCCAGC
CTGTCTCTCTGTCAGCCTTCTCTTCCAGAAGCTGTTGGAGAGACATTGAGGAGAGCAAGCCCCCTTGTCTATGT
TTCTGTCTCTGTTTATATCCTAAAGATAGACTTCTCTGACCCGAGGGAAGGGTAGCACGTGCACTCTCACC
GCAGGATGGGGCCTAGAATCAGGCTTGCCCTGGAGGCTGACAGTATCTGACATCCACTAAGCAATTTATTTA
AATTCATGGGAAATCACTTCTGCCCCAACTGAGACATTGCATTTTGAGCTCTTGGTCTGATTGGAGAAAG
GACTGTTACCCATTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCATCTGCCCTTTGAAATCAGACTGGGTGT
GTGCTTCCCTGGACATCACTGCCTCTCCAGGTCACTTCTCAGGCCCGGGGTCTCCTTCCCTCAGGCAGCTCCAG
TGGTGGGTTCTGAAGGGTGCTTTCAAACAGGGGGCACATCTGGCTGGGAAGTCACTGAGCTCTTCCAGGGAGA
GAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGTGTTGGGTCTAAGCGGTGTGTGCTGGGCTCCAAGGAGGAGGA
GCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCACTGCACTGACCATGTTGTCTATAATTAGAAATAAGAAGAA
GTGGTTGGAAATGCACATTCTGGATAGGAATCACAGCTCAGGATCTCACAGGTAGTCTCCTGAGTAGTT
GACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTGATGTGTAACGCTGACCTGTCTGTGTGCTA
AGAGCTATGCAGCTTAGCTGAGGCGCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGGTGCTTA
TTTTTTAATGAACTAATCAGAGACTCTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAA
ATGGATACGGAGTGATTGGGTGTCCATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCCTGGGGAATTTT
GTGGGAGACACTTGGGAACAAAACAGACACCCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACCAGTGTCTCT
GACCACCCTGGTGTGACTGCTGACTGCCAGCGTGTTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACA
AAGCACAATGTTCACTGTTTACAACCAAGACAAGTGCCTGGGTCCAAACACTCCTCTTCTCCAGGTCAATTTGTT
TTGCATTTTAAATGTCTTTATTTTTTGTAAATGAAAAAGCACACTAAGCTGCCCTGGAATCGGGTGCAGCTGAAT
AGGCACCCAAAAGTCCGTGACTAAATTTTCTTTTGTGATAGCAAATAATGTTAAGAGACAGTGTGGCTA
GGGCTCAACAATTTTGTATCCCATGTTTGTGTGAGACAGAGTTTGTCTTCCCTTGAACCTGGTTAGAATTGTGC
TACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTCCGTGACATTTCTGCGCCATTCTTGTTCATTGTGT
GGATGGTGGGTTGTGCCCACTTCCCTGGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCTGTGGTTCA
GAGTAACTTGAAGCAGATCTCTGCATGCTTTTCTCTGCAACAATTGGCTCATTCTCTTTTTTGTCTCTTTT
GATAGGATCCTGTTTCTATGTGTGCAAAATAAAATAAATTGGGCAA

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FIGURE 2140

ATGGCAGGGGAGTCACAAAGGAGAAGCACTCAGCCTGCCGAGAGGTCCTCAGGACTTTCCTGGAGGATCAGTCCCC
AAACTGACTGTGACAGGGAGCTATACCCAGATAACAGCAGAGGCCAGATAAGAAAGAGTCTGTAGATGGCAAG
TCAATGGGAAATCATTCCAGGAAGGTAGGGAAAGATGGAATTCTGGAGAGCATTGGACCTCAGATTGGGAGTCTG
AACGTCTTTCCATATGCATCAGGAAGCCATGGAAAATTCACAGACTGGAGTGACTTTGGCAAAGGAACAACATAT
AACGCACTCTCCCTGAACTCTACACAACATATTTTGTACCAAGACCCTACTTCTGACCTCCCTGTTCTTATGC
ATTGGAACAGCATACCCCGATTCCGCTACGACCAACTCATAACCTCCTATGA

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FIGURE 2141

CTAAATACTACCGTATGACCCACCATAATTACCCCCATACTCCTTACACTATTCCCTCATCACCCAACTAAAAATA
TTAAATACAAATTACCACCTACCTCCCTCACCAAAGCCCATAAAAAATAAAAACTATAACAAACCCTGAGAACCA
AAATGAACGAAAATCTGTTCACTTCATTTCATTGCCCCCACAATCCTAGGCCTACCCGCCGCAGTACTGATCATT
TATTTCCCCCTCTATTGATCCCCACCTCCAAATATCTCATCAACAACCGACTAATTACCACCCCAACAATGACTAA
TCCAATAACCTCAAAACAAATGATAGCCATACACAACACTAAGGGACGAACCTGATCTCTTATACTAGTATCCT
TAATCATTTTTTATTGCCACAATAACCTCCTCGGACTCCTGCCTCACTCATTTACACCAACCACCCAACTATCTA
TAAACCTAGCCATGGCCATCCCCCTTATGAGCGGGCGCAGTGATTATAGGCTTTTCGCTCTAAGATTAAAAATGCCC
TAGCCCACTTCTTACCACAAGGCACACCTACACCCCTTATCCCTATACTAGTTATTATCGAAACCATCAGCCTAC
TCATTCAACCAATAGCCCTGGCCGTACGCCTAACCGCTAACATTACTGCAGGCCACCTACTCATGCACCTAATTG
GAAGCGCCACACTAGCAATATCAACTATTAACCTTCCCTCTACACTTATCATCTTCACAATTCTAATTCTACTGA
CTATCCTAGAAATCGCTGTGCGCTTAATCCAAGCCTACGTTTTTACACTTCTAGTAAGCCTCTACCTGCACGACA
ACACATAATGACCCACCAATCACATGCCTATCATATAGTAAAACCCAGCCCATGGCCCCCTAACAGGGGGCCCTCTC
AGCCCTCCTAATGACCTCCGGCCTAGCCATGTGATTTCACCTCCACTCCACAACCCTCCTCATACTAGGCCTACT
AACCAACACACTAACCATATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACACACC
ACCTGTCCAGAAAGGCCTTCGATACGGGATAATCCTATTTATTACCTCAGAAGTTTTTTTCTTCGCAGGATTTTT
CTGAGCCTTTTACCACCTCCAGCCTAGCTCCCACCCCCCACTAGGGGGACACTGGCCCCCAACAGGCATCACCCC
GCTAAATCCCCTAGAAGTCCCACTCCTAAACACATCCGTATTACTCGCATCAGGGGTATCAATCACCTGAGCTCA
CCATAGTCTAATAGTCTATTTTACCCTCCTACAAGCCTCAGAGTACTTCGAG

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FIGURE 2142

GTGGGAACATCCAGTTGCGGGAAAACAAGCTTAACACGCCCCTGATTCTACATTATGCTCCTACCTCCCGGCAG
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC
CATACCCTACGTACGGCAGCCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCA
GCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC
ACTTGGACCCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCGGCAGCCTCT
CCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCA
AGCCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCAGCCTCCTGCCTCCCGAAGGCCTGCAC
AGGCCCAGCCTCTGCCTCACAGCGGACTCTC

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FIGURE 2143.

MLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPTPASWWPLQAQPVPPVGLYNPNICLTADSSRPASASQWTLQTMVSHCGILRRS
SCLSAASPGPAPPASQWPLSAQPSSCLPAAFPSPAFDFWWFLQASTRPSLLPPEGLHRPSICLTADSPRPASSRL
TAASPVQSSCLSATSAGPATAQWPL

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FIGURE 2144

CTCTCTCACACACACCCCGCTTGGGCCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGGCCGGGGT
CTCCTGTGGGGGGGCCAGCCGGTATCCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCGGGGGAGCCGGGAGCC
GGGGGCAGACGGGGCGGGGGTTGGGGCGGAGGGAGCAGCGGCCCCAGCGAGTTTGGGGGGAGAAGTAACCAGGCGG
GGGGAGGGGCGGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCAGCTATGGACGAACGGCTACTGGGGCCGCCCCC
TCCAGGCGGGGGCCGGGGGGGCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCCGGTGGCGG
AGACCCCGGTGGGGGTAGCGGGGGGTCCCGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGAT
AATGACCATCACCGACCAGAGCCTGGACGAGGCCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCC
TGCTCTCTTTAGCGTCTGTGTGAAATCAAGGAGAAAAGTGGCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCC
GGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCGAGAAAGGGGGCGG
CTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTGTCCCCTGACAACTCCATCGAACACTCGGA
CTATCGCAGCAAACTTGCCAGATCCGTCACATATACCACTCGGAGCTGGAGAAGTATGAGCAGGCATGTAATGA
GTTACAGACCCATGTCATGAACCTGCTGAGGGAGCAGAGCCGCACCAGGCCCGTGGCCCCCAAAGAGATGGAACG
CATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTGTGAT
GATCCTGCGCTCCCGTTTCTGGATGCCAGACGAAAGCGCCGTAAGTTCAGCAAACAGGCCACTGAGGTCCTAAA
TGAGTATTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGG
CATCACCGTGTCTCAGGTCTCCAAGTGGTTTGGCAACAAGAGGATTCGCTATAAGAAAAACATCGGAAAGTTCCA
AGAGGAGGCAACATCTATGCTGTCAAGACCGCCGTGTCAGTCACCCAGGGGGGCCACAGCCGCACCAGCTCCCC
GACACCCCTTCTCTGCAGGTGGATCCCACTGTACCCAGCTGACTGTTTTGCACACTTCCTGCTTTTGTTC
CACTTCCTATCTAGGCAGGATCATAGCAGAGAGGGGGCCTTTTGGGGTGAGAGGGACCGAGCTGAGATAGGCTGG
AGATGTCAGGGGACAGAGGCCATTCCAGTGATCTTAGTTCTGCCTTTCTTCCACGGGTGGCCAAGGAACAGCCT
GCTCTTTCTGTGTGTGGAATGTTATTTTGTGGATAATTGGAGTATAGTAGCATGTCCCCAC

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FIGURE 2145

GAGTAGAGTAGGGCAGGAGAACTGGGCCAGGCTGCACTTAGCTCAAGGGGCCTCGAGGACTCTCTGCGTCTCTG
GAGACAAGGGCACTACACGCACTTCAGAATGAAGAGTTGCGGGAGCATGCTGGGGCTCTGGGGCAGCGGCTCCC
CGCGGCGTGGGTCTGCTTCTGTTGCCTTTCTGCGGCTGCTGCTGCTTGCAGCCCCGCGCCCCACCGCGAGTC
CTACAAGCCGGTCATCGTGGTGATGGGCTCTTCGACAGCTCGTACAGCTTCCGCCACCTGCTGGAATACATCAA
TGAGACACACCCCGGGACTGTGGTGACAGTGCTCGATCTCTTCGATGGGAGAGAGAGCTTGCAGCCCTGTGGGA
ACAGGTGCAAGGGTTCCGAGAGGCTGTGGTCCCCATCATGGCAAAGGCCCTCAAGGGGTGCATCTCATCTGCTA
CTCGCAGGGGGCCTTGTGTGCGGGCTCTGCTTTCTGTCTATGGATGATCACAACGTGGATTCTTTTCATCTCCCT
CTCCTCTCCACAGATGGGACAGTATGGAGACACGGACTACTTGAAGTGGCTGTTCCTCCACCTCCATGCGGTCTAA
CCTCTATCGGATCTGCTATAGCCCCTGGGGCCAGGAATTCTCCATCTGCAACTACTGGCATGATCCCCACCACGA
TGACTTGTACCTCAATGCCAGCAGCTTCTGGCCCTGATCAATGGGGAAAGAGACCATCCCAATGCCACAGTATG
GCGGAAGAAGTTTCTGCGTGTGGGCCACCTGGTGTGCTGATTGGGGGCCCTGATGATGGTGTATTACTCCCTGGCA
GTCCAGCTTCTTTGGTTTCTATGATGCAATGAGACCGTCTGGAGATGGAGGAGCAACTGGTTTATCTGCGGGA
TTCTTTTGGGTTGAAGACTCTATTGGCCCGGGGGCCATAGTGAGGTGTCCAATGGCCGGTATCTCCACACAGC
CTGGCACTCCAACCGTACCCCTTATGAGACCTGCATTGAACCTTGGCTCTCCTGAGGATATATTAGGGGTCCCC
AGGAAGTCCCTCGGTCCAGAGACCAAGTGGTGGCCTTGGAAGCAGATGTCAGGCTTTGGTGTGCCTGTGACCAC
TCATTGCTCCCATATTATCCCCCATTTTATGAGAGACGGGGTTTTAGTAGAGACTTGGCCTCCAGAACCCCT
TCCTCTGCTCCTCCATGAATGACAATTCCAGGCCTCCCCTACCTCATGTCTCTCATTGGGGGATTGCTCCGTG
CTGTCCCTTTCTCTCAAGGCCGAAGTTGGGAAGTGAGAAACCATGTTTTAACTTGTGGCTGCTTTTGCTGCTGC
TGCTCCTCCGTATCTGGCTGTATGGGTGGGAGAACCCACCCCTGCCACACAGGGGTCTCCTTCCAGGCCACTC
AGGACATTTTATAGCTTCTCTCCTCCCATGTTCCCTTTTTCTCTAAAGTCCCCTGACATCAGCCCTCCCAACTC
CTAAGAGGGACTACCCATGAGAGTGGGGTCTGAGGCTCCCCTATGGGGACAGTTCCGTTCTTGAAGTGTCAAGT
TTGGGGAATATCTGTGGCCTATGAGGCCATCTCAGGTTTGGGGATCCCCCAGTCCCTATGATCAGTGTGGAGT
ACCCCTTGGGAGAGCCTAGTTTCTTTGAGGCCCCAGGCCCTCTTTTAACTACCTTTGAATAGGTGTTATCCCTG
TATTTATGAAATAAAGTTCCATTTCTC

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FIGURE 2146A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCCTTCTGTGGTTCATCTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCTG
AGAAACCCATCTCGTAATAATGTCCCTGCTCCCCAAAGGTGGACTTCACCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGT
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCTCTCGCCGGGGGCACCTCTTTTGCAGACGGACAGCCATTTACAACCTGGCCAGCGGGTTCGGTAC
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCCCGAGCACTGACACCATCACAGTCATGGTGGAGAACTCTCACGGC
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTCGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTCTCCAGGTGGGAGATGGAGGAGGCAGAGTCACA
TCCTGGTATTTTGTGTCATCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCTGGGGCCCC
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTCAGGCTCCCCAGCTTCTGGCATTCCTGTCAAAGTTTCTGCCACG
GTGCTTCTCCTGGGTCTGTTCTCTGAAGTCCAGGACATTCAGCAAAACACAGACGGGAGCGGCCAAGTCAGATT
CCAATAATATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCCGGGTTTCTGTCTATTGAGCGGCCGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACCTGCGAGCCGTGGGCACTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCCAGGGCAGATCGTGTTCATGAATCGAGAGCCCAAGAGGACCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCCCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACCTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCACAAGCCCCCAACATGGCCAAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTTGGGGTGGGGACAGTGCCTTTCAGGTGTTCCAGGCAGCGGCTGGCCTTTTCTGATGGAGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGAAAAAGAGAAACGTGAACCTC
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCTCTGCGAGCAGCGGGCAGCCCGCGTGCAGCAGCCGGACTGCCGGGAGCCCTTCTG
TCCTGCTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCCTCCAACGAGCCCTG
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGCAGCTTCTTCCCAGAGAAGTGGCTC
TGGAGAGTGGAAACAGTGGACCGCTTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAGGCCATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCCCTGCCATGTCTGTCCGCCCTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTAC
CTGGATAAAAACCTGACTGTGAGCGTCCACGTGTCCCAGTGGAGGGGCTGTGCTGGCTGGGGGCGGAGGGCTG
GCCCAGCAGGTGCTGGTGCTGCGGGCTCTGCCCGGCTGTTGCCCTTCTCTGTGGTGCCACGGCAGCCACCGCT
GTGCTCTGAAGGTGGTGGCTCGAGGGTCTTCAATTCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACCAACCCCTTGGACCACCGAGGCCGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTACAGGGTTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACACAGGAGGCGTGGCCTCCCTCTTGAAGCTTCTCGA
GGCTGTGGGGAGCAAACATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGCGGATGGTTCCTATGCGGCTTGGTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGGTCCTGAGTTTGGCCAGGAGCAGGTAGGAGGCTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGAAGCCTCCATCTCAAAGGCAAGCTCATTTTGGGGGAGAAAGCA

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FIGURE 2146B

AGTGCTGGGCTCCTGGGTGCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC
CTGCGGGGTGTTGCCACAACAACCTCATGGCAATGGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTCGCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGCCCTGGCTCACCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTTCGCGGCCCTGGAGGAGGAGCTG
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCTGAAGGTCTTCGTACC
TACAATGTCTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTCCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTCGGAGGAACCGCCGCAGGAGGGAGGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTACCCCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCTCTGTATTTTACTCGGTCCCCACCTCCCCGG
GAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCCGTGGGGCTGGTGCAGCCGGCCAGCGCAACCTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAGTAAGAGCAGACTCTTGGCCACCTTGTGT
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTTGCTGTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCTTGCACCTCACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTCGAGCCTCCTGCGCCTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCAAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTCAGTGTTGGC

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FIGURE 2147

TGTGGCCACCCAGTTCAGCTCCGGGTGTTCCGCGAGTTCACCTGCACCTCCGCCTGCCCATGTCTGTCCGCCG
CTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTACCTGGATAAAAACTGACTGTGAGCGTCCACGTGTC
CCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTGGCCCAGCAGGTGCTGGTGCCCTGCGGGCTCTGCCCG
GCCTGTTGCCTTCTGTGGTGGCCACGGCAGCCACCGCTGTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTTCGA
ATCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATTGAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGT
CTATGAACCTCAACCCCTTGGACCACCGAGGCCGGACCTTGGAAATACCTGGCAACTCTGATCCCAATATGATCCC
TGATGGGGACTTTAACAGCTACGTCAGGGTTACAGCCTCAGATCCATTGGACACTTTAGGCTCTGAGGGGGCCTT
GTCACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGAGGCTGTGGGGAGCAAACCATGATCTACTTGGCTCC
GACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAGTGGAGCACACTGCCTCCCGAGACCAAGGACCACGC
CGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAGTTTCGGAAGGCGGATGGTTCTATGCGGCTTGGTT
GTCACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTGAAGGTCTGAGTTTGGCCCAGGAGCAGGTAGGAGG
CTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTGTCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCT
CTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTGGGCAATGATGAGACTGTGGCACTCACAGCCTTTGT
GACCATCGCCCTTATCATGGGCTGGCCGTCTTCCAGGATGAGGGTGAGAGCCATTGAAGCAGAGAGTGAAGC
CTCCATCTCAAAGGCAAGCTCATTTTGGGGGAGAAAGCAAGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCAT
CAGGCCTATGCCCTGACACTGACCAAGGCCCCGCGGACCTGCGGGGTGTTGCCACAACAACCTCATGGCAAT
GGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTCACTGGTTCTCAGAGCAATGCCGTGTCGCCACCC
GGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCAGCCCTGTGGATTGAAACCACAGCCTACGCCCTGCT
GCACCTCCTGATTACAGAGGGCAAAGCAGAGATGGCAGACCAGGCTGCGGCCTGGCTCACCCTGTCAGGAGCTT
CCAAGGGGGATTCCGCGATACCCAAGACACGGTGATTGCCCTGGATGCCCTGTCTGCCCTACTGGATTGCCCTCCA
CACCCTGAGGAGAGGGGCTCTCAATGTGACTCTCAGCTCCACAGGCCGAATGGGTTCAAGTCCCACGCGTGCA
GCTGAACAACCGCCAGATTTCGCGGCTGGAGGAGGAGCTGCAGTTTCTTGGGCGAGCAAGATCAATGTGAAGGT
GGGAGGAAACAGCAAAGGAACCTGAAGGTCCTTCGTACCTACAATGTCCTGGACATGAAGAACACGACCTGCCA
GGACCTACAGATAGAAGTGACAGTCAAAGGCCACAGTCGAGTACACGATGGAAGCAAACGAGGACTATGAGGACTA
TGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCCCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGA
GGGTGCGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTGGTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGT
GTGCATCTGGCGGAACGCAAGGTGGGGCTGTCTGGCATGGCCATCGCGGACGTCACCTCCTGAGTGGATTCCA
CGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCTGACCGTTACGTGAGTCACTTTGAGACCGAGGGGCC
CCACGTCTGCTGTATTTTACTCGGTCCCCACCTCCCGGGAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCC
GGTGGGGCTGGTGCAGCCGGCCAGCGCAACCCCTGTACGACTACTACAACCCCGAGCGCAGATGTTCTGTGTTTTA
CGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGTTCTGTGTAAGTCTGCCAGTGTGCTGAGGGGAAGTG
CCCTCGCCAGCGTCGCGCCCTGGAGCGGGGCTGTGCAGGACGAGGATGGCTACAGGATGAAGTTTGCCTGCTACTA
CCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGAGAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGAC
CAAGATCACCCAAGTCTGCACTTCACCAAGGATGTCAAGGCCGCTGCTAATCAGATGCGCAACTTCTGTTTCG
AGCCTCCTGCCGCTTCGCTTGGAACTGGGAAAGAATATTTGATCATGGGTCTGGATGGGGCCACCTATGACCT
CGAGGGACACCCCCAGTACCTGCTGGACTCGAATAGCTGGATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAG
CACC CGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTCTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTG
AGGGCTGCCCTCCCACCTCCGCTGGGAGGAACCTGAACCTGGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGC
TTTCATGAACACAGCCTGGGACCAGGGCATATTAAGGCTTTTGGCAGCA

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FIGURE 2148

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGGACGATTTGCCAGCTT
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACCTA
TACTCCGATCACCAATGTACCTCCAGAGGTAAGTGTGCTACGAACAGCCCTGTGGAAGTGAAGAGAGCCCAACGT
CCTCATCTGTTTCATAGACAAGTTCACCCCAACAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCTGCCCAGGGAAGACCACCTTTCCGCAAGTTCCACTATCTCCCCTTCTCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGGTGTCTTCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA
AGAGTGGTTATGCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCTCTGTA
TCTATTTTCTCTATTTCCTATCATTATATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCTCAAACCTGTGATTTTCTG
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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FIGURE 2149

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDFDGDEIFHVDMAKKETVWRLEEFGR
FASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLICFIDKFTPPVVNVTWLRNG
KPVTTGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT
VGLVGIIIGTIFIIGLRKSNAERGPL

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FIGURE 2150

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCGCGTGGTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTGCATGCGGTTACGCGGAGGCCGGAGGAGGGCGGTGGGCACGTGTGGGTCCACCTGACAGCCGCTGCGCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 2151

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR
AGARDQPIIWKLKANYSAEERFLLLGFSWPSLQPVLFAVLVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH
LALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGDTTENQMFAARVVILLLPFAVI
LASYGÁVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI
YTLRNKKVKGAARRLLRSLGRGQAGQ

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FIGURE 2152

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCTGCTGCCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG
GCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCTGTGGTGACAGTTTAAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGCTTCCACCACATCC
TGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCCATTCTTTTACTGTACATAAAGTAACTG
GTATATGTGCAAGCATATTACTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTGTATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTGAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTTGTCTCTCACTGTTTAAACAACAACAACAAAAACAACAACATAAAAAATC
CTTGACATACCTTGTTCAATTGGAGAATTTAATGTTTTTCAATTTATCATTGTAAACCAAGGACAATTTATAAC
TTTTTTGTAAGTCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAACAAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTGTTTAAATAAACTTCTTGTTTAAAA

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FIGURE 2153

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFREDGQPMKQTHLHSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSIRKLQFASTTS

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FIGURE 2154

GCGCACCCCTCTCCCCTTGTCCACTGCTGCCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATGGCCGAAGAAAAGCCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTGAATTTGCTTCCACCACATCCTGACTACTA
CCGTATAGTTTCTCTATTCTTTCATTTCCCCCTTCCCATTCTTTACTGTACATA

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FIGURE 2155

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC
CTGGGCGGGCTCCCCTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGCGGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCGGAACACACAGATCTACAAGGCCCAGGCACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATGACCACTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGA
GGCGGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCGTGAGTGGCTCCGCAGATACCTGGA
GAACGGGAAGGACAAGCTGGAGCGCGCTGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGTTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTACCCTGAG
ATGGGAGCCGTCTTCCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCTAGCAGTTGTGGT
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGTTCAGGTGGAAGAGGAGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGAG
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTTGTCCACTGTGA
CCCCTGTTTCGCATGCTGACCTGTGTTTCTCCCCA .

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FIGURE 2156

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGIVDDTQFVRFSDAASPREEPRAPW
IEQEGPEYWDRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHDQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAAREAEQRRAYLEGECEVWLRRYLENGKDKLERADPEKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWE
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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FIGURE 2157

GGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGGCGGCCCTGGCCCTGACCGAGACCTGGGCGCCCCAGGCTCCCA
CTCCATGAGGTATTTGACACCGCCATGTCCCGGGCCGGCCGGGGAGCCCCGCTTCATCTCAGTGGGCTACGT
GGACGACACGCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGA
GCAGGAGGGGCGGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGACTGACCGAGAGAGCCT
GCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCATGTACGGCTGCGACGT
GGGGCCGGACGGGCGCCTCCTCCGCGGGCATAACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGA
GGACCTGCGCTCCTGGACCGCGGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGC
GGAGCAGGACAGAGCCTACCTGGAGGGCAGGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACAC
GCTGGAGCGCGCGGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTG
CTGGGCCCCGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGACCAAACTCAGGACAC
TGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGAGA
AGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTACCCTGAGATGGGAGCCGTCTTC
CCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGTCATCGGAGCTGTGGT
CGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAGAGGAGGAGCTACTCTCAGGCTGCGTGCAGCGACAG
TGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAGGGACTGAGATGCAGG
ATTTCTTCACGCCTCCCCCTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGCACCTGAATGTGTCTG
CGTCCCTGTAGCATAATGTGAGGAGGTGGAGAGACAGCCACCCTTGTGTCCACTGTGACCCCTGTTCCTCATGC
TGACCTGTGTTTCTCCCCAGTCATCTTCTTGTTCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAC
TTTACGTGCACTGAGCTGCAACTTCTTACTTCCCTACTGAAAATAAGAACTCTGAATATAAATTTGTTTCTCAAA
TATTTGCTATGAGAGGTTGATGGATTAATTAAATAAGTCAATTCCTGGAATTTGAGAGAGCAAATAAAGACCTGA
GA

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FIGURE 2158

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVGIVDDTQFVRFSDAASPREEPRAPW
IEQEGPEYWDRNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWEF
SSQSTVPIVGIVAGLAVLAVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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FIGURE 2159

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGCGGGGGCAGGTCTGATGAGT
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCTGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCCTGCACCGGGCCTGTGCCCGCCACGAT
GCCCCTGCCCTGTGCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCCACCAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCGCCAGGGCCAGATGCCTACACCGATTTCTTCCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCCTGGCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCCGTCGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCGGGGCCAGGGAAGAGCACCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC
ACATCTC

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FIGURE 2160

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATATATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTAGGCCCATACCCTACGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCTTCTACCTCACTTGGACCCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2161

TGAGGGAGTGAGGGAAGCTTCCTCTGTATTTACAGCCACTCCCCCTTTGCTCACATTCCCGCCTGAGCTCCACCTT
CTCAGATGAGCAGCAGCATTAGATGCTCATAGGAGAACGCACCCTGTTGTGAACCATGCATGTGAGGGATCTAGG
TTGCGCTGTCCTTATGAGAGTCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGAACATCCA
GTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCC
AGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCAAAATGGCCTATTTAGGCCCATACCCTACGTC
ACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTC
TTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACATTCTCAGGTCTCCCTCTGTTGTCCAAGG
CTGGAGTGTAGTAGTGCTATCGCAGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCACGTCAACC
TCCACGTGGCTGAGACTACAGGTGCTTGCCACTATGCCCACTAATATTTGGAATTTTCATATACGTGGATTCC
AGAGGGGTGACAGCGAAACGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTA
TGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTC
TCAATGGCCTATTTAGGCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTC
CACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTC

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FIGURE 2162

MAYLGPYPTSRQPPQMRLLPHNSLHRHSSIVTMASLDPAPASQPSLQALNFLKLTSPGPAHASLQPLQAQLLHLG
GPSRPSLCLPSASTVPTSASQQILHAQLLPHLDPPDPDGVSLWHPQVKLLPFGSLSRPSSSCLPVASFQALMP
PGGLPKPRF

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FIGURE 2163

GGCACGAGGGCCGGAAGGGCGCTCCGCGACGCAGCTGTTACGCTTAGGTGGGCGACGTGGGCGCAGGTGGGCG
CAGGATGGCAAAACAGAAGAGAAAAGTTCTGAAGTGACAGAGAAAAAGAACAAAAGCTGAAGAAGGCGTCAGC
AGAGGGGCCACTGCTGGGCCCTGAGGCTGCACCAAGTGGCGAAGGAGCCGGCTCCAAGGGCGAAGCTGTGCTCAG
GCCCCGGCTGGACGCAGAGCCAGAGCTGTCCCCAGAGGAGCAGAGGGTCTTGAAAGGAAGCTGAAAAAGGAACG
GAAGAAAGAGGAGAGGCAGCGTCTGCGGGAGGCAGGCCTGTGGCCACGACCCGCCTGCCAGGCGCTCGGGGGC
CGAACTGGCCCTGGACTACCTCTGCAGATGGGCCCCAAAAGCACAGAAGTGGAGGTTTCAGAAGACGAGGCAGAC
GTGGCTCCTGCTGCACATGTATGACAGTGACAAGGTTCCCGATGAGCACTTCTCCACCCTGCTGGCCTACCTGGA
GGGGCTGCAGGGCCGGGCCCCGAGAGCTGACGGTGCAGAAGGCGGAAGCCCTGATGCGGGAGCTGGATGAGGAGGG
CTCTGATCCCCCCTGCCGGGGAGGGCCAGCGCATCCGACAGGTGCTGCAGCTGCTCTCCTAGTGGGTTTCAGCG
CGGGGCGGGGCCGCTGCCAGTGCAGGGCTGCCCTCAGACCACACAGGGTGCAGCTCCTCCGGCGGTGGGGGCCGG
GTTACACAGCAGGGCAGCGGCTGAGCAAGGGCTTTCAGCTCCTCCGGTGGTGGGGGCCGGGATCACCAGCACCAG
AGCCTCGCAAGGGCCCCCTCCCTCCTCCAGACCCTCCTTGGCCGGTGACGGCTGTGACAGTGATGGCAGGTTTCAG
TGCCTTCAGCGCAGAGCGTGGATGCTCTGGAATCACCCGGACCCCTGGCCTTGGAGGGACCTCCAGCCCCAGGA
ATCTGCTTTGGAGGGAAATGTCTATTTTCTACCGGGAATATTTTAGAGATTGGGGCATGCTGGCTCCTCCCGCC
AGCTGCAAACCTGCACCTTCCGCCTGATTCCCGATCCCCCTGCGTGGGCCGCATTCTGGTCCCCTGCCTGCGTC
CATCGAGGGGCCCTGGCTGTGGCCTGTTTTCCTTTGACCCACACAGCGTCATTGCGGGTCATGGGGAGCCCCCTGG
TGGGAGCTTGTGGAGTCGGATCACGTACCTGTGCAGAAACCGCCTCTGTGGCTGCATTTGAAATAAAACCCGACC
CAGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2164

MAKQKRKVPEVTEKKNKKLKKASAEGPLLGPAAAPSGEGAGSKGEAVLRPGLDAEPELSPEEQRVLERKCLKKERK
KEERQRLREAGLVAQHPPARRSGAELALDYLCRWAQKHKNWRFQKTRQTWLLHMYDSKVPDEHFSTLLAYLEG
LQGRARELTVQKAEALMRELDEEGSDPPLPGRAQRIRQVLQLLS

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FIGURE 2165

GCGGCGCGCTGCAGGCGCGGGGAACACCAATGCGGGGTACTTGAAGCTGGTGTGTGTTTCCTTTACGCGTCAAG
GGTTCCACACTGTTGGGAGTCGCTGCAAGAATCGGACAGGCGCTGAGCACCTGTGGCTGACCCGACATCTCAGGG
ACCCATTGTGAAGGCTGCGAAGGTGGAGAGTTACCGGTGTGGAAGCGCCTTCAAGCTCCTGGAGGTGAACGAGA
GGCACCAGATTCTGCGGCCCCGGCCTTCGGGTGTTAGACTGTGGGGCAGCTCCTGGGGCCTGGAGTCAGGTGGCGG
TGCAGAAGGTCAACGCCGAGGCACAGATCCCAGCTCTCCTGTTGGCTTCGTGCTTGGGGTAGATCTTCTTCACA
TATTCCTCCCTGGAAGGAGCAACTTTTCTGTGCCCTGCTGACGTGACTGACCCGAGAACCTCACAGAGAATCCTCG
AGGTGCTTCCTGGCAGGAGAGCAGATGTGATTCTGAGCGACATGGCGCCCAATGCCACAGGGTTCCGGGACCTCG
ATCATGACAGGCTCATCAGCCTGTGCCTGACCCTTCTCAGCGTGACCCGAGACATCCTGCAACCTGGGGGGACAT
TCCTTTGTAAAACCTGGGCTGGAAGTCAAAGCCGTCGGTTACAGAGGAGACTGACAGAGGAATCCAGAATGTAA
GGATCATCAAACCTGAAGCCAGCAGGAAAGAGTCATCAGAAGTGTACTTCTTGGCCACACAGTACCACGGAAGGA
AGGGCACTGTGAAGCAGTCAGGATTTCTTGTGCCATTTTCATAATGGTCATTAGCTCCTTTTAAGCTAGAAACGT
AGCCTGAGCTCCTGAAGAGTTCTTGGGAGATTTGAGCTGATTTTGGAGATGGAGCAGGACAAGTGGGGAGTCTCT
CTCTCTCTTTCTCTCTCTCTCTTTTTAACCAAAAAGAGATGACAAAATAAGTTCAGGGGCCATGGAAAATGAAA
AAGTCCGCTATATTGTGATTTGGGAAGAGAAAGTTATCAAGAGAAAGAGGTGAGGATGGAAGGATGGAGAAAAAC
AGACTGTGGGAAGGATCAGAAGGAATCCGCCGAGGCAGGGATGGGTGTGCCCATGTGTGCCTTGACGGGACTTCA
TCTTATAGACTGTTAACTGTACACACAAACAGGCTTCCACCCCTGCTCTGAGAGCACACGCACAGATTTCC
AGTTCTTAGTGTGGCTGTTTAAAGTAGAAAATCTGGGGGCTGGGTGAGGCCACTCATGCCTGTAAACCCAGGGCT
TTAGAAGGCTGAGGCTGGGGGATTGCTTGAAGTCAGGAGTTCAAGACCAACCTGGGCAACATAGCAACACCCCCC
ATGTCTACAAAATGAAAAACCAAAAGCAAACCAAAAGAAAAATCTGAAATTTCCATCTGGGGATTAACTTCTG
TCTTTCTGGTGAACAATATAGCAATTCACGCATTCTTCAAGCAGCAAAAGTTCCCGGAACAATTAGGGAAGACGT
ATGGTCTGAATTTATCCAGGCAGTGGGTCTGCTTTGGTTTTTGCTGGAATTTATATCAGTGTCTGGGCTCCCAA
GAACATAAATGTAATTGCCAAAGCAAAAAA

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FIGURE 2166

MAGYLKLVCSFQRQGFHTVGSRCNRTGAEHLWLTRHLRDPFVKAAKVESYRCRSFAFKLLEVNERHQILRPGLR
VLDCGAAPGAWSQVAVQKVNAAGTDFSSPVGVFLGVDDLHIFPLEGATFLCPADVTDPRTSQRILEVLPGRRADV
ILSDMAPNATGFRDLHDRLISLCLTLLSVTPDILQPGGTFLCKTWAGSQSRRQLQRRLTEEFQNVRIIKPEASRK
ESSEVYFLATQYHGRKGTVKQ

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FIGURE 2167

CGGCGGCCGCGGAGCCCTGCGAGTAGGCAGCGTTGGGCCCATGCAGGACGCGGAGAACGTGGCGGTGCCCGAGGC
GGCCGAGGAGCGCGCCGAGCCCGGCCAGCAGCAGCCGGCCGCCGAGCCGCCGCCAGCCGAGGGGTGCTGCGGCC
CGCGGGGCCCCGCGCTCCGGAGGCCGCGGGGACCGAGGCCCTCCAGTGAGGAGGTGGGGATCGCGGAGGCCGGGCC
GGAGTCCGAGGTGAGGACCGAGCCGGCGGGCGAGGCAGAGCGGCCCTCCGGCCCCGTCCGAGTCGCCCTCGCCGCC
GGCCGCCGAGGAGCTGCCCGGGTTCGATGCTGAGCCCCCTGTCCCGGCACAGGGCGAGGCCCCAGGAGAGCAGGC
TCGGGACGAGCGCTCCGACAGCCGGGCCAGGCGGTGTCCGAGGACGCGGGAGGAAACGAGGGCAGAGCGGCCGA
GGCCGAACCCCGGGCGCTGGAGAACGGCGACGCGGACGAGCCCTCCTTCAGCGACCCCGAGGACTTCGTGGACGA
CGTGAGCGAGGAAGAATTACTGGGAGATGTACTCAAAGATCGGCCCCAGGAAGCAGATGGAATCGATTCCGTGAT
TGTAAGTGACAATGTCCCTCAGGTGGGACCCGACCGACTTGAGAACTCAAAAATGTCATCCACAAGATCTTTTC
CAAGTTTGGGAAAATCACAATGATTTTTATCCTGAAGAGGATGGGAAGACAAAAGGGTATATTTTCTGGAGTA
CGCGTCCCCCTGCCACGCTGTGGATGCTGTGAAGAACGCCGACGGCTACAAGCTTGACAAGCAGCACACATTCCG
GGTCAACCTCTTTACGGATTTTGACAAGTATATGACGATCAGTGACGAGTGGGATATTCCAGAGAAAACAGCCTTT
CAAAGACCTGGGGAACCTACGTTACTGGCTTGAAGAGGCAGAATGCAGAGATCAGTACAGTGTGATTTTTGAGAG
TGGAGACCGCACTTCCATATTCTGGAATGACGTAAAAGACCTGTCTCAATTGAAGAAAGAGCGAGATGGACAGA
GACGTATGTGCGTTGGTCTCCTAAGGGCACCTACCTGGCTACCTTTTCATCAAAGAGGCATTGCTCTATGGGGGG
AGAGAAATTCAAGCAAATTCAGAGATTCAGCCACCAAGGGGTTAGCTTATTGACTTCTCACCTTGTGAAAGGTA
CCTGGTGACCTTTAGCCCCCTGATGGACACGCAGGATGACCCTCAGGCCATAATCATCTGGGACATCCTTACGGG
GCACAAGAAGAGGGGTTTTCACTGTGAGAGCTCAGCCCATTGGCCTATTTTTAAGTGGAGCCATGATGGCAAATT
CTTTGCCAGAATGACCTGGATACGCTTAGCATCTATGAACTCCTTCTATGGGTCTTTTGGACAAGAAGAGTTT
GAAGATCTCTGGGATAAAAGACTTTTTCTTGGTCTCCTGGTGGTAACATAATCGCCTTCTGGGTGCCTGAAGACAA
AGATATTCCAGCCAGGGTAACCTGATGCAGCTCCCTACCAGGCAAGAGATCCGAGTGAGGAACCTGTTCAATGT
GGTGGACTGCAAGCTCCATTGGCAGAAGAACGGAGACTACTTGTGTGTGAAAGTAGATAGGACTCCGAAAGGCAC
CCAGGGTGTGTGACAAATTTTGAATTTTCCGAATGAGGGAGAAACAGGTACCTGTGGATGTGGTGCAGATGAA
AGAAACCATCATAGCCTTTGCCTGGGAACCAAATGGAAGTAAGTTTGCTGTGCTGCACGGAGAGGCTCCGCGGAT
ATCTGTGTCTTTTACCACGTCAAAAACAACGGGAAGATTGAACTCATCAAGATGTTTCGACAAGCAGCAGGCCGAA
CACCATCTTCTGGAGCCCCCAAGGACAGTTCGTGGTGTGGCGGGCCTGAGGAGTATGAACGGTGCCTTAGCGTT
TGTGGACACTTCGGACTGCACGGTCATGAACATCGCAGAGCACTACATGGCTTCCGACGTCGAATGGGATCCTAC
TGGGCGCTACGTCGTCACCTCTGTGTCTGGTGGAGCCATAAGGTGGACAACGCGTACTGGCTGTGGACTTTCCA
GGGACGCTCTCTGCAGAAGAACAACAAGGACCGCTTCTGCCAGCTGCTGTGGCGGCCCGGCTCCACACTCCT
GAGCCAGGAACAGATCAAGCAAATTAAGGAGATCTGAAGAAATACTTAAGATCTTTGAACAGAAGGATCGTTT
GAGTCAGTCCAAAGCCTCAAAGGAATTGGTGGAGAGAAGGCGCACCATGATGGAAGATTTCCGGAAGTACCGGAA
AATGGCCCAGGAGCTCTATATGGAGCAGAAAAACGAGCGCTGGAGTTGCGAGGAGGGGTGGACACTGACGAGCT
GGACAGCAACGTGGAGCACTGGGAAGAGGAGACCATTGAGTTCTTCGTCACTGAAGAAATCATTCCCCCTCGGGAA
TCAGGAGTGACCTGGAGCACTGTGCGCAGCCGTGTGTGCTGTGGAGCCGAGGCCGTCTGCAGGAAGCCGCGTGA
CTCCCGCCTCCTCCTGTGCTCTCTGGCTCTGGACTGTGACTGCGCCTGGATTCTGCCATTGCGACACATTTTTG
TGCCCTTTCAGCCCTGCTGTCTGCACTGGGGGATTTAAGGCACCCGCTTCCACTTCTTTCTTGTGAGTTTTT
TGTGGAACCGCCGCGTTGGCTCCGAAGACTTAGCGACGCCACTGGCGGCACCTTCTCCTGCGCCCAGTGATGT
TTCCACGGTGCCTGTACACAGCCGAGCAGCATTTCCGTTGAAGGACTTGATCCCCATTGCGGGCAGTGCTGGAC
GTGTCCCGGAGACCCACGGGAGGGCGCCGCTTGTACCCCAACCGTGCAGGTTGTGGCCGGTTTTCTCC
GCAGGTTGAACATGGAATAAAAGCAAACCTGTATG

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FIGURE 2168

GTCGGAGCGACCGGCTTGGCGCCTGCCTGTCCCCAGCCCCCTCTCAGCTTGAACCTCCTTCCTTCAAGTCTGGGCCC
TCGAGGCTTCCAGAGCGGCCCTCCAGGGGTGCAGTCTCAGTTCCCCACGCCAGCCGTCTCCGTCTCCGCCCTCCTC
CGGGCCTGGCAGGTGGCACTGTCCGGAGGCGGAGCCTTGGGCGAGGGGTGGTTGCGGCGGAGGACGCAACCGAGC
GGGCTGCGGCCCTACCATGGACCCAGAATGCGCCCAGCTGTCTCCGGCTCTCTGTGCTGTTCTGGTAGATCCCA
GGCAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAAACGGTCACTGAAGGAGAGTCCA
GTGTCGTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCCATGTGCTGAAAGTCCAGGACCTGAGTT
CTGGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGCAGCCCAGGAAAACCTGCTTCCAGTATCTTCAGG
TGCGGTGACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCGGCCAGTCAGCTCCTGGT
GCACGTCTGGCTTTGTCCATGCGAGGTGGAGCCGAGGGGCGAGCCCTGCCTGCCGGGGGGTGACTGGCCCGCGTG
TGCCCAGAAGATCATGGATCACGTTGAAGAGTCTTGTGCTCCGCGGCCACCCCCAAGGTCACTCAGGCCCTGAA
CGTCTTGACCACGACCTTCGGGCGCTGCCAGAGCCCCTGGACGGAAGCCCTGTGGGTGCGGCTGAGTCCCCGCGT
GGCCTGTCTGCTGGAGAGAGACCCCATCCCCGCCGACACTCGTTCGTGGACCTGCTTCTCTGTGTGGCTCGTTC
TCCCGTGTTCACTTCTTCCGACGGCAGCCTGTGGGAGACAGTGGCGGGGCTCTGAGCTGCCTGGGTCCCCACCA
CATGGGACCCCTGGCTTTGGGGATCCTGAAGCTCGAGCACTGTCCACAGGCACTGAGGACCCAGGCCCTTCCAGGT
CCTTCTCCAGCCCCTGGCTGTGTCTGAAGGCCACGGTTCAGGCCCCCGGACCCCAAGGCTTGCTGGACGGGAC
GGCAGACGATGCCACGACGGTGGACACACTCCTGGCCTCCAAGTCGTCTGCGCCGGCCTCCTGTGCCGACCCCT
GGCTCACCTGGAGGAGCTGCAGCCGCTGCCCCAGCGCCCTTACCCTGGCCCCAGGCGTCTCTACTGGGGGCTAC
AGTGACTGTCCTGCGGCTCTGTGACGGCTCGGCTGCCCCCTGCCTCCAGTGTGGGGGGCCACCTCTGTGGGACCCCT
GGCGGGCTGCGTCCGGGTCCAGCGAGCAGCCCTCGACTTCTGGGGACGCTGTACAGGGGACAGGCCCCCAGGA
GCTGGTGACGACGGCGCTTGCTGTCTCCTGGAGTGCCTCGAGAGCCCCGGCTCCAGCCCCACGGTTCGAAGAA
GGCCTTCCAGGCCACGCTCAGGTGGCTCCTGAGCTCACCAAGACCCCCGGCTGCTCTGATCTCGGCCCCCTCAT
CCCCAGTTCTCAGAGAGCTGTTCCTGTGCTGCAGAAACGCTGTGCCACCCCTGCTGGGAGGTGAGGGACTC
CGCCCTCGAGTTCTTGACCAGCTGAGCAGGCACTGGGGAGGACAGGCTGACTTCAGATGCGCACTCTTGGCTTC
AGAGGTGCCTCAGCTGGCCCTGCAGCTCCTCCAGGACCCCTGAGAGTTATGTCCGAGCGAGTGCAGTGACCGCCAT
GGGGCAGCTGTCCAGCCAGGGCCTGCACGCCCCCACCAGCCCTGAGCATGCAGAGGCCCGGACAGACCTGTTCTCCT
GGAGCTCCTGCACATCCTTCCGTAGACTCGGAGGGCTTCCCACGGCGGGCGGTATGCAAGTCTTCACTGAGTG
GCTGCGGGACGGCCACGCCGACGCGGCCAGGACACGGAGCAGTTCGTGGCCACTGTGCTGCAGGCGGCGAGCCG
AGACCTGGACTGGGAGGTCCGCGCCAGGGCCTGGAGCTGGCCCTCGTGTTCCTGGGCCAGACTTTGGGGCCGCC
GCGTACCCACTGCCCTATGCCGTGGCCGTACCCGAGGTGGCCCCAGCCCAGCCACTCACCGAGGCACTGAGGGC
TCTCTGCCACGTGGGGCTCTTTGACTTCGCCCTTTTGTGCCTTGTGACTGCGACCGCCCTGTGGCGCAGAAGTC
TTGTGACCTCCTTCTCTTCTGAGGGACAAGATTGCTTCTTACAGCAGCCTGCGGGAGGCCAGGGGCAGCCCCAA
CACTGCCCTCCGCGAGAGGCCACCTTGCCGAGGTGGCGGGCGGGTGAGCAGGGCCAGCCCCAGGGGACAGGAGCC
TGAGGCTGTGCTGGCCATGCTCAGGTCCCTAGACCTGGAGGGCTGCGGAGCACGCTGGCCGAGAGCAGCGACCA
CGTGGA³AAAGAGTCCCCAGTCCCTCCTGCAGGACATGCTGGCCACGGGAGGCTTCTGCAAGGGGACGAGGCCGA
CTGCTACTGAGCAGAACCAGAGTCTGCCACTGGGGCTCAGGACCAAGGGAGGCAGCACCATGTCTTCTGTGGGA
CACTGCCAGCCCCAGGGCTCCAGCCCAGCCCGGTGGATCCTCTGGGGAAGCCAGGACCAGGAGAGAAGCAAGGTC
AAGAAATCCCACAGTTTGATGTATTAAAGAAATGACTTATTTCTACTCAAAATAAATGGCATTGAAGTCTTTCTT
T

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FIGURE 2169

MRGGAEGQPCLPGGDWPACAQKIMDHVEESLCSAATPKVTQALNVLTTTFGRCQSPWTEALWVRLSPRVACLLER
DPIPAAHSEFVDLLLCVARSPVFSSSDGSLWETVARALSCLGPTHMGPLALGILKLEHCPQALRTQAFQVLLQPLA
CVLKATVQAPGPPGLLDGTADDATTVDTLASKSSCAGLLCRTLAHLEELQPLPQRPSWPQASLLGATVTVLRL
CDGSAAPASSVGGHLCGTLAGCVRVQRAALDFLGTLGSGTGPQELVTQALAVLLECLESPGSSPTVLKKAQATL
RWLLSSPKTPGCSDLGPLIPQFLRELFVVLQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCALLASEVPQLA
LQLLDPESEYVRASAVTAMGQLSSQGLHAPTSPEHAERQSLFLELLHILSVDSSEGFPRAVMQVFTEWLDRGHA
DAAQDTEQFVATVLQAASRDLDWEVRAQGLELALVFLGQTLGPPRTHCPYAVALEVAPAQPLTEALRALCHVGL
FDFAFCALFDCDRPVAQKSCDLLFLRDKIASYSSLREARGSPNTASAEATLPRWRAGEQAQPPGDQEPQAVLAM
LRSLDLEGLRSTLAESSDHVEKSPQSLLDMLATGGFLQGDEADCY

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FIGURE 2170A

GGCGGCCGAGCGGAGCCGAGCGCAGCCGAGCCGGGCGGAGCCGGGCGGCGGCCAGGAGCGCGGGATGAT
GCGGGCGGCCAGGCGGGGTCGACGGGTCCCTGAAGCCCGCGCCCCGGGCCAGCAAGGGAGCCCCGCGCAGGCCG
CGCGCATCCGGAGGCGGCGGCCCCGCCATGCGCGGGGTGAGCTACGCGGCGCCCTGGTGGGTGAGCCTCCTGC
ACCGGCTGCCCCACTTCGACCTGAGCTGGGAGGCCACTAGCAGCCAGTTCCGGCCGAGGACACCGACTACCAGC
AGGCCCTGCTGCTCCTGGGGGCGCGCCCTGGCCTGCCTCGCCCTGGACCTCCTCTTCTGCTCTTCTACTCCT
TCTGGCTGTGCTGCCGGCGCGCAAGAGCGAGGAGCACCTGGACGCCGACTGCTGCTGCACGGCCTGGTGTGTCA
TCATGCCACGCTGGTGTGTCAGCGCGGCATCGCAGTGGGATTCTACGGCAACGGGGAGACCAGTGATGGCATCC
ATAGGGCCACCTACTCGTCCGCCACGCCAACCGCACGGTGGCCGGGTCCAGGACCGCGTGTGGGACACGGCGG
TGGGGCTGAACCACACGGCGGAGCCAGCCTGGAGCGGCAGCTGGCCGGGCGGCCGAGCCCCCTGC
GAGCCGTACAGAGGCTGCAGGGCCTGCTGGAGACGCTGCTGGGCTACACGGCCGCCATCCCCTTTGGAGGAACA
CGGCGGTGTGCTGGAGGTGCTGGCGGAGCAGGTGGATCTCTACGACTGGTACAGGGTCTGCCTGCTGGGAGTCC
TGGCCCTGGTCATCAGCTGGGGCGCGCTGGGCTTGGAGCTGGCTGTGTCCGTGGGCTCCAGCGACTTCTGTGTGG
ACCTTGACGCTACGTGACCAAAATGGTGGAGGAGTACTCGGTGCTGAGTGGGGACATCCTGCAGTACTACCTGG
CCTGCTCGCCCCGCGCGCCCAACCCCTTCCAGCAGAAGCTGTCGGGCAGCCACAAGGCACTGGTGGAGATGCAGG
ATGTCGTGGCTGAGCTTCTGAGGACCGTCCCTGGGAGCAGCGGCCACTAAGGACCCCTCCTCCGCGTCCAGG
AGGTGCTGAATGGCACGGAGGTGAACCTGCAGCACCTCACCGCCCTGGTGGACTGCCGACGCTGCATCTGGACT
ACGTGCAAGCGCTGACCGGCTTCTGCTATGACGGCGTGGAGGGCCTCATCTACCTGGCCCTCTTCTCCTTCGTCA
CAGCCCTCATGTTGAGCTCCATCGTCTGCAGCGTCCCGCACACCTGGCAGCAAAAGAGAGGCCCTGATGAGGACG
GGGAGGAGGAGGCCCTCCAGGGCGCGCGCAGGCGCAGCAGCCTCTACCGCGTCCACATGCCAGCCTGTACA
GCTGTGGCAGCAGCTACGGCAGTGAGACCAGCATCCCGCGCGCGGCCACACCGTCAGCAACGCCCGGTCACTG
AGTACATGAGCCAGAACGCTAATTTCCAGAACCCCGCTGTGAGAACACCCCACTCATTGGGCGCGAGTCCCGCG
CGCCCTCATACACCTCCAGCATGAGAGCCAAATACCTCGCCACGAGCCAGCCTCGCCCTGACTCCAGCGGCAGCC
ACTAGACCGCGCGCCGCGCAGCCACCCACCCACGTGCCAACTTCCCTTCCCGTGCCAGCACTGCCGCTTCCACCT
GGGCCACCCACCGGACCTCGCACGCCGTGCCAGGCCTGCCCCAGACGCGTCTGCAGGCCGCTTGCCTCCTGTG
CCCTCCCCGCGAGGGGCACAGTGGAGACGCAGGGGCTCTGGGCCCGTACCGCCAACTCGGGTCACACCTGAACGCT
GCTGCCAGCCGATGCCCCAGCCCTGCACGCCACCCACTATCCCGGCACGCTCCCTCTGCAGATGGTCCCGCACC
TACAAGCCCTGGCCGACCCAACTGTGTTGTTGCCGCCCGGCCCTTCCCTCCACAGCTCTCCTTCTCCCGCCC
GGCACTTCTGTGAGCCCTTCTTAGTTACAGGCACGGCTGGGGCGGCTCTGTGCTGGCGCCTGCTGGCCACTGA
GGGACAGGGACAGTGCCACCTGCTCATCTCTGCCCTGAGGTACCCCGTGGTCCCTCCACGTGCCCATCTCTCT
GCAGTGCCCTCCTCGCCTGTGCAGCCCGCCACCCACAGGCTACCCCTCCTGCCGGCTGCCAGAGGCCCTCC
AGCAGGGCCTCTCTCGGTTGCCCCAGCTTCACTCTCTCCCTCAGCACCTGCCCTGCTGGAGGCCCCAGCCCTCCG
TGGACAGCAGGGGCCACGTGGAGCCCGGGCGCTCACCCGCCACCCAGTGCTGGCCGCTTCTTGGTGCCAAACC
CCCTTCCCCACCCAGAGACTGGGCAGCTGTGTCTGGTTGCTTCTTGGACTAACCACATTTGTATCTCTAGGG
CAGGCTGGGGCTGCGGGCTGAGGGGACCGCTGGCACCCCTTCCCTCCCTTCTTGGTTCCATTTCCATCCATG
ACAGGTACAGCATCCCAGGAGCCCGGCTGAGGGGCTGACCCGAGCCGGCTGTGAACATCCCTCAGCCCTGCT
GTCCCCCTTGGGACTAACCCTAACCTCACCCCAAACTCCAGGGTGCCCTAGCTGGCCAGAGCCGGCAGT
GTGAGCCCAAGTCCGGGCTGGAGCCGAGGCCGGAGCAGCTGTCTGGGAGTCAAGGCTGCAGTAGCGTTTCTTCAT
GGGGTGTCTCAGGGGGTGCCACAGACCGACAGGCAGCCAAAGGGCCTGGACACCCCTCCCCAGGCAGGTGCTGCC
CCAGGAGGACTGTCTCGGAATGAACCTCCCGCGGGCTTTGGACTGAGGTCCCTGTGGCCTCGGTCTCCTCCCC
ATGAAGTGGGAGCGAGGCTCCCCAATGGTGTCTTTGGCTTTAGTGTACGATGTTTGTGTGCTTCCCGCGGTGA
GGGCAGAGCCACCCACATCAGGATCGGACGTGTACCCCTCCCGGTCCCGGCCCTGGCCAGCCAGCCAGCCC
TCGAGGCTCGATGCCTGTGCCAAGGCCAGGGGCGAGCCAGAGGGCAGCTGGATGGCCACGTGCAGGGGTCAAGGCT
GGGCCCTGCAGTGGGGCGGGCGCCAGCCCGCAGGTTTACAGACGCATGGCTCTTCTCCAGAGCAGCCGGCA
GCTACCTGGACCGGAAATGTCTCATCCCTCCCTGGGGCCAGGCTCTGCCCTGGCCTTCTCTGTGAACCCCTC
CTTTCTTGTGCTGGTGTCTGGGACCAAAAAGGGGAATATGGGAGGGCAGAGTGGGGAGGGGAGTCCATGGGCC
TGGGGCCCCAAGCCGGGGCGTCTGAGCTCCCCAGGCATGACCAACCTCAGTGGAGGGGCTCTGCTTACGGCCC
CGCTGGCTGACATTCTGAGCCCCCTCGGAGGCCCGCCACAGCAACCTGCCAGTCTTCTCTGCGCTTGA
CCCGCCAGGGGAGTTCTCCAGGCCTAGGGCCAGGAGAGAGGCCCTGGCACCTGGCGTGGGTGCCCGCCAAACGC

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FIGURE 2170B

CCTGCGACCGCTCAGAAGCACAAATGCTGTCCATGGCCGTGAGGCTGCCTGCCAGGTGAATGGACATAGCGTGAG
AGGCGGTGAGGCCAGGGCTTCCAGCCTCGTGCTGTCTCGGGACTCCTGACCGTGGTGTGCGTGTGTGCCCGTCTG
TGACTTTCTACTCACCAAGGTTGAAGAAAGGAAACGGGGAAAATCAAAAGGGGTTCAAACCCACCTCAGTAGGT
GGAGGGGAGCGCCTGCCATTGGTTGTATTTTGTCTGAGTTTTCGGTGCCGTGTTCTTAATACTACTCCATCCCAT
GACCTCGCCACACCTACTGGGGCATCTGGCTGGTGCCTGCTGCCATGGCCAGCCCCACTCTCACCCCTGCACAGG
GGGTCTTGACAGCCCCCAGGCCACAGCCTCGTTGGGAGGACAGGGTGGCCCTGGGGACAAGAGGGAGGAGCCCAG
GGGCTTACCTCACTGAGAGTGCTCCCCAGCAGGCATCCACTACCCAGGGCCCCCACATGTCATGGCAAGGTTG
GTAGTGAATGGGCCTGGTTGGGAGCAGCCCCTGGCCCCATTGCCACCCACCCATCTCACTATGCAATTCGAGTTC
CAAGCAACATTTGCTCCTGCCCTGGGGCCAGCTCTGCCCCAGCCCTGAGAGGGGTGGTGAGGCAGCCCCCTGGAC
CCCAGAACCCAGACAAGGGGGCAGGCGGGGGACCAGGGCCTCTCCTGTGGGATCTTTGTTTTGTGTTAACCAT
AATGGTTGTGTACTGAACCACTTCATATTTGTTATATATAATATATATATATAATCTCCTTAAGACTCAGCCT
CCTGGTTTACCCCCCGCCTGGGCATCTGACCTCCCCACCCAGTGTGATTAAACATCCAGGAAGTGAAGGCCT
GAACCATTTTGATTTCCCCCTCCTCCAGCCTCTGTAGGGCCATGGCTGTATGTACTGTGCTGTGTTTTTTGT
TTTTTTAGAACTGGGTTTGGGGGCTGATTTTATTTCTTTGGGGGCTTTTTTCTTGGCAAATACTAAAAATCTC
GTCAATGTAATTTCTGTGGTTTCTATTAGCTTGGGTTTCATGTTTTAAATAAAATTTTAAAAAGC

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FIGURE 2171

MAGVSYAAPWWVSLHRLPHFDLSWEATSSQFRPEDTDYQQALLLGAAALACLALDLLFLLFYFWLCCRRRKS
EEHLDADCCCTAWCVIIATLVCSAGIAVGFIYNGETSDGIHRATYSLRHANRTVAGVQDRVWDTAVGLNHTAEPS
LQTLERQLAGRPEPLRAVQRLQGLLETLLGYTAAIPFWRNTAVSLEVLAEQVDLYDWYRVCLLGVLALVISWGAL
GLELAVSVGSSDFCVDPPDAYVTMVEEYSVLSGDILQYYLACSPRAANPFQKLSGSHKALVEMQDVVAELLRTV
PWEQPATKDPLLVRVQEVNLNGTEVNLQHLTALVDCRSLHLDYVQALTGFCYDGVGLIYLLALFSFVTALMFSSIVC
SVPHTWQQKRGPDDEGEEAAPGPRQAHDSLYRVHMPSLYSCGSSYGSETSIPAAAHTVSNAPVTEYMSQNANFQ
NPRCENTPLIGRESPPPSYTSSMRAYLATSQPRPDSSGSH

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FIGURE 2172

ACAGAACAGAGAGAAAGGAACCTTTGTCTTTTCGTGTGAATGCTCGTGAGGGGCCATCCTTAGAGTGGAATGCTC
CTGAGGCTCCAGCGAATCAAGACCTCAGACCCCCGGGCTGTCCCCACCCCATGACCACATGTTCCGCAGGCACC
CTCAGCGCTGTGCCCTGCGTGTGCGCCAGGCAGGTGTTTGTGTTTTGAGCGCAGATTCTGCCTGTGGCATAGCCAT
GTGGAGATGTTACGCATGTACTTCCCTTTGTGATTTAGCCGATACGGAAGATGTGTGCATTGTAGAGAGATTG
TTCTCCAGCAGCCTAGTGGCCATCGTGAGCCTTAAAGCACCAGGAAGCTAAAGGTTTGCCACTTTAAGAAGGGA
ACTGAGATCTGCAACTACAGCTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGC
CTGGAGGAGTCCCTGTACATCCACAACATTCTGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAAC
CCTGCAGGCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGCGACCATCGGA
GAGGTGCAGGTCTTCGATACCATTAATTTGAGAGCTGCAAACATGATTCCGGCTCACGACAGTCCTTTAGCGGCA
CTGGCCTTTGACGCAAGTGGAATAAATTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGGGTATTTTCCATT
CCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCCCTGGCCTTCAGC
ATGGACGGCATGTTCTCTCCGCCTCCAGCAACACTGAGACCGTGACATCTTCAAACCTCGAGACTGTGAAAGAA
AAACCCCCAGAGGAGCCCACCACCTGGACCGGGTACTTCGGGAAAGTGCTCATGGCCTCCACCAGCTACCTGCCT
TCCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCTTTCGCCACGGTCCGCCTGCCATTCTGCGGCCACAAAAAC
ATCTGCTCGCTAGCCACAATTCAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCCGACGGGTACCTGTACATGTAC
AACCTGGACCCCCAGGAGGGCGGCGAGTGTGCCCTGATGAAGCAGCACCGGCTGGACGGCAGTCTGAAAACGACC
AATGAGATCTTGGACTCTGCCTCTCACGACTGCCCTTAGTCACTCAGACATACGGCGCAGCTGCAGGAAAAGCC
TACACAGACGACCTGGGTGCTGTGGGTGGCGCCTGCCTGGAGGACGAGGCCAGCGCCCTGCGCCTGGATGAGGAC
AGCGAGCACCCGCCCATGATTCTTCGGACTGACTGAACCTTGACCTGTGACCTCTGACCCGGGGAGCAGAGAACAC
TGGCTTCACAGAGGACTTTGTGCATTGCTGCTATGAACCTTGACCTGAGTCGGGGGAGAGGATGGCAGAGACTTT
ATT

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FIGURE 2173

MLLRQLRIKTLRPPGCPHPMTTCSAGTILSAVPCVSPRQVFVFERRFCLWHSVEMFTHVLPFVISADTEDVCIVE
RLFSSSLVAIVSLKAPRKLKVCHFCKGTEICNYSYSNTILAVKLNRLIVCLEESLYIHNIKRMKVLHTIRETP
PNPAGLCALSINNDNCYLAYPGSATIGEVQVFDITINLRAANMIPAHDSPALAFDASGKLTASEKGTIVIRVF
SIEGQKLFEFRRGVKRCVSIKSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPEPTTWTGYFGKVLMASTSY
LPSQVTEMFNOGRAFATVRLPFCGHKNICSLATIQKIPRLLVGAADGYLYMYNLDPOEGGECALMKQHRDGLK
TTNEILDSASHDCPLVTQTYGAAAGKAYTDDLGAVGACLEDEASALRLDEDEHPPMILRTD

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FIGURE 2174

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT
GGATGATGATATCGCCGCGCTCGTTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC
CCCCCGGGCCGTCTTCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTCAGAAGGA
TTCCTATGTGGGCGACGAGGCCCAGAGCAAGAGAGGCATCCTCACCCCTGAAGTACCCCATCGAGCACGGCATCGT
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCA
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACCGCGAGAAGATGACCCAGATCATGTTTGAGAC
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCCTCTGGCCGTACCACTGGCAT
CGTGATGGACTCCGGTGACGGGGTCACCCACACTGTGCCATCTACGAGGGGTATGCCCTCCCCATGCCATCCT
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCGAGCGCGGCTACAGCTTCAC
CACCACGGCCGAGCGGGAATCGTGCGTGACATTAAGGAGAAGCTGTGCTACGTCGCCCTGGACTTCGAGCAAGA
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCTGGGCATGGAGTCTGTGGCATCCACGA
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCCTGTCTGG
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAA
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCAC
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTA
GGCGGACTATGACTTAGTTGCGTTACACCCTTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG
CATGGCTTTATTTGTTTTTTTTGTTTTGTTTTGGTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG
CACATTGTTGTTTTTTTAAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTGCCATCCTAAAAG
CCACCCCACTTCTCTCTAAGGAGAAATGGCCAGTCCTCTCCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT
CGTGTAATATGTAATGCAAAATTTTTTAACTCTCGCCTTAATACTTTTTTATTTGTTTTATTTTGAATGAT
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAG
TGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

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FIGURE 2175

MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVVMGMGQKDSYVGDEAQSKRGILTLYPIEHGI
VTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRITG
IVMDSGDGVHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQ
EMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLS
GGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

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FIGURE 2176

GCGGAGGGTGCCTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCCGCCGAGGGACCCGCCACCCACCTC
CCGGGGCCGCGCAGCGGCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG
TTCGGCCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC
AGCCACCTGGGCGCGCTACCTGGCGGCGGACAAGGACGGCAACGTGACCTGCGAGCGGAGGTGCCCGGTCCCGAC
TGCCGTTTCTCATCTGTGGCGCACGACGACGGTCGGTGGTGCAGTCCGAGGCGCACCGGCGCTACTTTCGGC
GGCACCGAGGACCGCCTGTCTGCTTCGCGCAGACGGTGTCCCCCGCCGAGAAGTGGAGCGTGACATCGCCATG
CACCCTCAGGTCAACATCTACAGTGTACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGCCGCGGACGAGATC
GCCGTGGACCGCGACGTGCCCTGGGGCGTCGACTCGCTCATACCCTCGCCTTCAGGACACGCGTACAGCGTG
CAGACCGCCGACCACCGCTTCTGCGCCACGACGGGCGCTGGTGGCGCGCCCGAGCCGGCCACTGGCTACACG
CTGGAGTTCCGCTCCGGCAAGGTGGCCTTCCGCGACTGCGAGGCGCGTTACCTGGCGCGCTCGGGGCCAGCGGC
ACGCTCAAGCGGGCAAGGCCACCAAGGTGGGAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCAGGT
GTGCTGACGGCGGCCAACGAGAGGAACGTGTCCACGCGCCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG
ACCGACAGGAGAGCTTCCAGCTGGAGATCGACCGCGACACCAAAAGTGTGCCTTCCGTACCCACACGGGCAAG
TACTGGACGCTGACGGCCAACGGGGCGTGCAGTCCACCGCCTCCAGCAAGAATGCCAGCTGCTACTTTGACATC
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG
GCCGCTCGGTGGAGACAGCGGGGACTCAGAGCTCTTCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTC
CGCGGGGAGCATGGCTTCATCGGCTGCCGAAGGTACGGGCACCTGGACGCCAACCGCTCCAGCTATGACGTC
TTCCAGTGGAGTTAACGATGGCGCCTACAACATCAAAGACTCCACAGGCAAATACTGGACGGTGGGCAGTGAC
TCCGCGGTACACAGCAGCGGCGACACTCCTGTGGACTTCTTCTCGAGTTCTGCGACTATAACAAGGTGGCCATC
AAGGTGGGCGGGCGCTACCTGAAGGGCGACCACGACGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC
TCGCTCTGGGAGTACTAGGGCGGGCCCGTCTTCCCCGCCCTGCCACATGGCGGCTCCTGCCAACCTCCCTG
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCCTTTCAAAGTGGAAACCCAGAG
AAAACGGTGCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCTCCGCGCGGGTTCCTACTCCCTCGGG
TCAGCGGTGCGGCCTGGCCCTGGGAGGGATTTAGATGCCCCCTGCCCTCTTGTCTGCCACGGGGCGAGTCTGGC
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG
AGCCCTGGGCGTGTAGTGTAACTGGAATCTTTTGCCTCTCCAGCCACCTCCTCCAGCCCCCAGGAGAGCTGG
GCACATGTCCCAAGCCTGTCACTGGCCCTCCCTGGTGCAGTGTCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT
CGGGAGGGCTAGGACTGACCTTTGTGGTGTTTTTTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGGAGA
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCGCTCTTCTCCTGTCTCTTTCTTTACCCCTAGCCTGACTG
GAAGCAGAAAATGACCAATCAGTATTTTTTTAATGAAATATTATTGCTGGAGGCGTCCAGGCAAGCCTGGCT
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGTGCATCTCAGCCCCCTCTTTCCGTC
CTTCCCGTCCAGCCCCAGCCCTGGGCCTGGGCTGCCGACACCTGGGCCAGAGCCCCGTGTGTGATTGGTGTCTCC
TGGGCTCCCGGGTGGATGAAGCCAGGCGTCCCCCTCCGGGAGCCCTGGGGTGAAGCGCGGGGCCCCCTGC
TGCCAGCCTCCCCCGTCCCCAACATGCATCTCACTCTGGGTGTCTTGGTCTTTTATTTTTTGTAAAGTGTCAATTG
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAAATAGCGAAATAAAATAACTCAGTCTGC

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FIGURE 2177

MTANGTAEAVQIQFGLINCGNKYLTAFAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYLAADKD
GNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPA EKWSVHIAMHPQVNIYSVTRK
RYAHL SARP ADEI AVDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHDGRLVARPEPATGYILEFRSGKVAFRD
CEGRYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQAANERNVSTRQGM DLSANQDEETDQET FQLEIDR
DTKKCAFRTHTGKYWILTATGGVQSTASSKNASCYFDIEWRDRRITLRASNGKFVTSKKNQQLAASVETAGDSEL
FLMKLINRPIIVFRGEHGFICRKVTGTLDANRSSYDVFQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVD
FFFEFCDYNKVAIKVGGRYLKGDHAGVLKASAETVDPASLWEY

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FIGURE 2178

CCGAACGCCCGCAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCGTGACCTCTGACGGTTTCTGAGCGTTGGC
CTTTGGCACGCGCTACACCCTTTTGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG
GCGCGCTCTCCGTGTGGAGCTTCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCAG
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT
TAAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG
ATGTAACCAACATAATCCAAGCGGATGAGCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCCTCCCCTCTCCCTGCTTGTGC
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGCACACGCACTCCTCGGTCAAGAGCGTGCCTG
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCAAGACTATCAGCTGGGATTCACTTTAA
TTTGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA
TTGCACGTTTCTTGTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCTTATAGATAGCTGGGTAG
ATATTGCGATTTTTCAGTTAAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACCTCTGCTC
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTACCGTAGCAGACGTGGTGCTGTGGTCTGTACTCCAGCAGA
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAAGTATTTTAAAGGGTTTAGATTTTAAGAATGGTGCTCTT
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTATTAGGCCAGTTGTCAAGTGTCAAT
AAAAGCGCATCATGTAATTTA

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FIGURE 2179

MPMYQVKPYHGGGAPLRVELPTCMYRLPNVHGRSYGPAGAGHVQEEENLSLQALESRQDDILKRLYELKAAVDG
LSKMIQTPDADLDVTNIIQADEPTTLITNALDLNSVLGKDYGALKDIVINANPASPLSLLVLHRLLCHEFRVLS
TVHTHSSVKSPENLLKCFGEQNKQPRQDYQLGFTLIWKNVPKTQMKFSIQTMCPIEGEGNIARFLFSLFGQKH
NAVNATLIDSWVDIAIFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADVVLWSVLQQIGGCSVTVPANVQ
RWMRSCENLAPFNTALKLLK

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FIGURE 2180

ATCGGAGTGTGGCAGTGTCTGGGCTGGCCGGCGGGCTGGGCTGCGGCCCGCGCGGGCCGGCGGATCGAGGGGGGCA
ACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTGGGGCTGTGGCTGCGCCGCCCATCGACTTTC
CCGCCGAGGGCCCGGACCCCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTAC
AACAGCCAACCTTCCCTTTTGCAAGTTCAGCAACTCTTGCTGGTTTCTTGTGGAGCACTTGAGCCACGTGC
ATGAACCAACCCACTTCGTTCAAGACAGGTGTTAAGCTACTTTGCCAGACGTTTATCAAAATGGGGCTGCTGT
CTTCTTTCACCTTGTAGTGACGAGTTTAGCTCATTGAGACTACATCACACAGAGCTATTACTCACTTAATGAGGT
CTGTAAAGAGAGAGTTCTGTCAGGATCCTTGTGAGGATATTCTCGTATCCAGAAATCAGATCAAGGGAAGTAG
CCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGGTGGATACGGAA
GAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATGCAATAAAAAAATCCTGATTAAGGGTGCAACTA
AAACAGTTTGCATGAAGGTCTTACGGGAAGTGAAGGTGCTGGCAGGTCTTCAGCACCCCAATATTGTTGGCTATC
ACACCGCGTGGATAGAATCATGTTTATGTTTATGATTGAGCCAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGG
AAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTGTAAAAATGATGAAAGTAGCAGCTCATCCATTA
TCTTTGCTGAGCCCAACCCAGAAAAAGAAAAACGCTTTGAGAAATCTGACACTGAAAATCAGAAATAACAAGTCGG
TGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTTGAGTCGACCCCTGGAGCTCCAGGAAAATGGCT
TGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGCCACTCAGGCGTAATTTCCACCTAGAGGAGAGTT
TCACATCCACCGAAGAATCTTCCGAAGAAAATGTCAACTTTTGGGTGACAGAGGCACAGTACCACCTGATGC
TGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATTGGATAGTCGAGAGAAACAAGCGGGCCGGGAGT
ATGTGGACGAGTCTGCTGTCTTATGTTATGGCCAATGTTGCAACAAAAATTTTCAAGAATTTGGTAGAAGGTG
TGTTTACATACATAACATGGGAATTTGTGACCCGACATGTAAGCCAAGAAATATTTTCTCATGGCCCTGATC
AGCAAGTAAAAATAGAGACTTTGGTCTGGCCTGACAGACTCCTACAGAAACACAGACTGGACCAACAGAA
ACGGGAAGAGAACACCAACACATACGTCAGAGTGGGTACTTGTCTGTACGCTTCACCCGAACAGTTGGAAGGAT
CTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGGTCTGTGCTAGAGCTCTTTCAGCCGTTTGAACAG
AAATGGAGCGAGCAGAAGTTCTAACAGGTTTAAGAACTGGTCAGTTGCCGGAATCCCTCCGTAAAAGGTGTCCAG
TGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACATCGCAGAGACCATCTGCCATTAGCTGTCTGCAGA
GTGAACTTTTCCAAAATTTCTGGAAATGTTAACCTCACCTACAGATGAAGATAATAGAGCAAGAAAAAGAAATTG
CAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAGGGGTGAGGGATGACGGAAGGATGGGGGCGTGG
GATGAAAGTGGACTTAACCTTTTAAGGTAGTTAACTGGAATGTAATTTTTAATCTTTATTAGGGTATAGTTGGTA
CAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTTAAAGATGTCAGAGTGCCCCAAGCTGCCGTTCTCT
CCCTTCCTGCCCCACAAGCTCCTTTTCTGAAATTTCTACCTAAATATTAACCATATGCCTAGTCTCTGAACTA
AAAATTTGGACCTCATCTCAATTATTTTCTCCTTTCAACTCTGTTGACCCCTCTGTCTGGTCTTCTCTAGAAGG
TTCTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCCCAAGCCCGGGCCTGCACATACTCACTGGAC
TGTTCCAGTTTTGACAGCTGCCAGTCTTCTGCCCTTTTCACTGCAGCTGAAGTTTATTACCTGAAGGACGCC
TCATCATTTTATTCTTGGCTCCAAACCTTCTGCTGCCTTAAGATAAAAGCTCAACTTCTTAACAGTGTACAGT
GTGCAACTTCCAACCTTTTATCTGTTCTCTCCACCTTCAGTTTAGCGTCATTCCAAAACACACCCCTTGCAAAG
CTTTGTACTCCGACCCAGATGATCTCCAGGCAGCTCAGATCTCTTCTGCTCTTGGCCCTGCACTGTTCCCCG
GTACTTCTCTCTTATTGTAGCACTCAGCTCCCCAGCCAATCTGTACATCCCTCAGAGGCAGCGATCTGATGAAT
TGGTTTTTGAATCCAGAAAGGGTCTGCCATGGAGTTGGCAGTCATCACGGTAGATGGCGTATGATTTTGCTGAA
TTTTAAATAAAATGAAAACCATAAAAA

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FIGURE 2181

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESDVPAEIQVLKEPLQQPTFPFAVANQLLLVSLLEH
LSHVHEPNPLRSRQVFKLLCQTFIKMGLLSSFTCSDEFSSRLHNNRAITHLMRSAKERVQRQPCEDISRIQKIR
SREVALEAQTSTRYLNEFEELAILGKGGYGRVYKVRNKLDGQYYAIKKILIKGATKTVCMKVLREVKVLAGLQHPN
IVGYHTAWIEHVHVIQPRADRAAIELPSLEVLSDQEEDREQCGVKNDSSSSSIIFAEPTEPEKEKRFGESDTENQ
NNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQLPLRRNSHLEESFTSTEESEENVNVLGQTEAQ
YHMLHLHIQMLCELSLWDWIVERNKRGREYVDESACPYVMANVATKIFQELVEGVFYIHNMGIVHRDLKPRNIFL
HGPDQQVKIGDFGLACTDILQKNTDWTNRNGKRTPTHTSRVGTCLYASPEQLEGSEYDAKSDMYSLGVVLELEFQ
PFGTEMERAEVLTGLRTGQLPESLRKRCPVQAKYIQHLTRRNSSQRPSAIQLLQSELFQNSGNVNLTLQMKIIEQ
EKEIAELKKQLNLLSQDKGVRDDGKDGGVG

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FIGURE 2182

ATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAACTTGCCTACTGATCAGTTACACAACC
AATGCATTTTCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAATGTTATGGTAGATGGAAAACCG
GTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGCCCCCTATCCTATCCGCAAACA
GATGTGTTCTTAATTTGCTTTTCCCTGTGAGTCCTGCATCATTTGAAAATGTCCGTGCAAAGTGGTATCCTGAG
GTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAATAAACTTGATCTTAGGGATGATAAAGACACG
ATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTAGCCATGGCTAAGGAGATTGGT
GCTGTAAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTGTGTTGACGAAGCGATCCGAGCA
GTCTCTGCCCCCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

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FIGURE 2183

MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQT
DVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPILVGTKLDRDDKDTIEKLKEKKLTPITYPQGLAMAKEIG
AVKYLECSALTQRGLKTVFDEAIRAVLCPPPVKRKRKCLLL

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FIGURE 2184

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCCTGCTCC
TATGCCACAGTGTACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCTGGGCCCTCTATCGTGCCTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATAAGTGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAATAATCAGAACT
TAACTCTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTATTACTGTGTACAAAGATTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTGGCAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2185

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSLEILWTFSIYLESVAILPQLFMISKTEAETITTH
YLFFLGlyRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFLYITKVLKGKLSLPA

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FIGURE 2186

ATGAGCGACATCCGCCACTCGCTGCTGCGCCGCGATGCGCTGAGCGCCGCCAAGGAGGTGTTGTACCACCTGGAC
ATCTACTTCAGCAGCCAGCTGCAGAGCGCGCCGCTGCCATCGTGGACAAGGGCCCCGTGGAGCTGCTGGAGGAG
TTCGTGTTCCAGGTGCCCAAGGAGCGCAGCGCGCAGCCCAAGAGACTGAATTCCTTCAGGAGCTTCAACTTCTT
GAAATCATGTGCAATTATTTCCAGGAGCAAACCAAGGACTCTGTTGCGCAGATTATTTTTTCATCCCTTTTCAGC
CCTCAAGGGAACAAAGCCGATGACAGCCGGATGAGCTTGTGGGAAAACCTGGTCTCCATGGCGGTGGCTGTGTGT
CGAATCCCGGTGTTGGAGTGTGCTGCCTCCTGGCTTCAGCGGACGCCCGTGGTTTACTGTGTGAGGTTAGCCAAG
GCCCTTGTAGATGACTACTGCTGTTTGGTGCCGGGATCCATTAGACGCTGAAGCAGATATTCAGTGCCAGCCCCG
AGATTCTGCTGCCAGTTTATCACCTCCGTTACCGCGCTCTATGACCTGTCATCAGATGACCTCATTCCACCTATG
GACTTGCTTGAAATGATTGTACCTGGATTTTTGAGGACCCAAGGTTGATTCTCATCACTTTTTTAAATACTCCG
ATTGCGGCCAATCTGCCAATAGGATTCTTAGAGCTACCCCGCTCGTTGGATTGATCCGCTGGTGCGTGAAGGCA
CCCCCTGGCTTATAAAAGGAAAAAGAGCCCCCTTATCCAATGGCCATGTCAGCAACAAGGTACAAAGGACCCG
GGCGTGGGGATGGACAGAGACTCCACCTCTTGTACTCAAACTCCACCTCAGCGTCTTGCAAGTGCTCATGACG
CTGCAGCTGCACCTGACCGAGAAGAATCTGTATGGGCGCCTGGGGCTGATCCTCTTCGACCACATGGTCCCGCTG
GTAGAGGAGATCAACAGGTTGGCGGATGAACTGAACCCCTCAACGCCTCCAGGAGATTGAGCTCTCGCTGGAC
CGGCTGGCGCAGGCTCTGCAGGTGGCCATGGCCTCAGGAGCTCTGCTGTGCACGAGAGATGACCTGAGAACCTTG
TGCTCCAGGCTGCCCCATAATAACCTCCTCCAGCTGGTGATCTCGGGTCCCGTGACAGCTCGCCTCACGCCGCG
CTCCCCCGGGGTCTACCCCCACATCCACACGCCCCGCTGGGCTACGGGGCTGTCCCGGCCACCCCGCCGCC
CACCCCGCCTGCCCCACGACCCCGGCCACACCTTCATCTCCGGCGTGACCTTTCCTTCAGGCCATCCGCTAG

GCTGGCCCGTGTGTGCCTTCTGCGCTCTCGCTGGACGAAGCCTTTCGAGATGGAAGGGGTGGCCGGACTCCAGAG
AGAGAACCTCGGGGAAGGGGTGCGGCAGCCCCCTCCCGCCGGCAGAACCGTCTTGGTGTACGGAGTCCAGGTGC
TTCCACCCGGTGCATTCTTTGACATGCAGATTGGATGGTGGAGGAAGAGTCCAGCCTCTGCCGAGAGCCTGC
TGCGTGCATTTTTAAAGATGCCGATCCTGGGAGCCTCTGTTCTCTGCGCATTTACAGACACAGCCTGTGTGGCGA
GGAGTGTGACGGCAGGAGCCACGGGTGCAAGCCCGTGTGTCTGGCCTCTTTCCTCGTGAAGACGATGTGTCCCG
CCAGAAAAAGTGGGCACCTTCTGCAGCCCCGTGAGCTGAGCCAGGCTGCGTAGTGACCACAAGCTTATGTGCAG
CACTGCTCAGGGAGGCTGTGAGGAATTCCTCACCTCGGAAAGGAATTCTCAGTTTTATTGGGGGTGTCTAAA
TTTCCTTTCATATGTTCAAATAAATTTTTCTAAACAGT

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FIGURE 2187

MSDIRHSLRRDALSAAKEVLYHLDIYFSSQLQSAPLP IVDKGPVELLEEFVFQVPKERSAQP KRLNSLQELQLL
EIMCNYFQEQTKDSVRQIIFSSLFSPQGNKADDSRMSLLGKLVSM AVAVCRIPVLECAASWLQRTPVVYCVRLAK
ALVDDYCCLVPGSIQTLKQIF SASPRFCCQFITSVTALYDLSSDDLIPMDLLEMIVTWIFEDPRILITFLNTP
IAANLPIGFLELTPLVGLIRWCVKAPLAYKRKKKPPLSNGHVSNKVKDPGVGMDRDSHLLYSKLHLSVLQVLMT
LQLHLTEKNLYGRLGLILFDH MVPLVEEINRLADELNPLNASQEIELSLDRLAQALQVAMASGALLCTRDDLRTL
CSRLPHNNLLQLVISGPVQQSPHAALPPGFYPHIHTPPLGYGAVPAHPAHPALP THPGHTFISGVTFFFRPIR

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FIGURE 2188

GGCACGAGGAAGCTACTCAGATAAGAGGCTCCAAGAGGACATTTTTGGATGTGAAAAACAATGAGAAGGAGGACA
ACACACATTTACAATCGTCTTAATTTTGTACTCAGAAAAAGGATGTGAAGACAATGCACAGGGAATACAATAGTT
TCAGATCTGTGTACAGTTTCCTTTTGCTTCATCTCCTGCAACAATGTAATGAAGACACCATGATATCATTAAACAT
TTCACACAAAAGGAAAATGAGGCTGAAATGGTGTGGGCAAGGCCAGGAATCTGGAGCATCCCTAACCAGCAGC
AGAGCACCTGGGATAGAGAAAGTGCTCAAGAATGTCACTTACTGATTACTACAATCAAAAAAAGATACGACACT
AATTTACCACATTCTTCTTACTTATTTTATGAGATACTATTCTTCCAAGGTGGAGAAAGTGGAGAAAGTAGAGTG
ACGCAGCTAAGGGAGTAAATCGACCCTCAGCCAACAAGTGGCAAAAGCCTGAAGAAAGTGATCAAGATCACTGAT
GACCCCGCGGCCCATCTCCAAGGGGGCGGGTATCACAACCCCGACGCCACACCACGTATCATTCCGCAAAACTCC
CGCGCCTCCACGCAGAACTGGCAAGAGGGAAGGCGAGACAGCAGTGAACAGCTGGTACGCAGCACCCACAGCAC
CGCGGCAGCAGCTAGTGCCGACTCCCGCCTAGCTCTTTGACTCTGTTCGCGGAAGAATGGGGAAACAGTAAGG
TTGCGGCGCCTCCCGCGAGACGAGGTACCTGAGGCTGGCCCCGCGAGTCCCCCGCCGACCCAGCACCAGGAGCTTCA
CACCCCACTTCCGGGGTCAAGTCACCGCCGGGAATCCTGTGATCGCAGAAAGGTAGTCTCAGGTTCCGCCCCAT
CCAAGTCCCGCCTCCACTGCCTCTCGCCCTGTATCTGTCAACTTCCGGGACGCCGCGCGTCACTAAGCAGCCAAT
CTCCACTTCCGGACTCATCCAGCCCCTTCTCCACCCCTTTCAGAGACAGCGGATTGCGATTTAGGTTTCCGCGC
ATTTAATTGGCGAAGCTGGAGCGCTAGTCTTCGCTGATTGGTGCCGAGAAATCTGCCCCATAGACACCCGCGGGG
CGCACAGTTTCAGTCGTCCGTGGGTTTCCCGCCAGCCGAGTCTTGGAACATAATCATGGTGGACATGATGGACT
TGCCAGGTCGCGCATCAACGCCGGCATGCTAGCTCAATTCATCGACAAGCCTGTCTGCTTCGTAGGGAGGCTGG
AAAAGATTATCCACCGGAAAAATGTTTATTCTTTCAGATGGAGAAGGAAAAAATGGAACCATCGAGTTGATGG
AACCCTTGATGAAGAAATCTCTGGAATTGTGGAAGTGGTTGGAAGAGTAACCGCCAAGGCCACCATCTTGTGTA
CATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCTTGACTTTACAATGAAGCTGTGAAAATTATCC
ATGACTTCCCTCAGTTTATCCTTTAGGGATTGTGCAACATGATTGATCTTGATGGATTTTCATACGATTGTAAA
TGAGCTATATTAAAGTCTATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2189

MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVEVVGRVTA
KATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD

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FIGURE 2190

CAACCGAATGGTCAACCATTTTATTGCTGAGCTCAAGCGCAAGCATAAGAAGGACATCAGTGAGAGCAAGAGAGC
TGTAAGATGCCTCCGTACTGCTTGTGAACATGCTAAGCGTACTCTCTCTCCAGCACCCAAGTCAGTATTGAGAT
CGATTCTCTCTATGTAGGAATTGACTTCTATACCTCCATTACCTGTGCCCAGTTTGAAGAATTGAATGCCTGGGG
GATTCCCTGTTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCA
ACCCAAGTATAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTTGTAGCAAATTCTGTGG
CAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGG
GGAAGGAAATAACATTGCACTTTATAAACTGTATTGTAAGTGGAAAATGCAATGTCTTAAATAAACTATTTA
AAATTGGCACCAT

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FIGURE 2191

CAGCCATCCTGTCTGGAGACAAGTCTGAAAATGTTCAAGATTTGCTGCTCTTGGACGTCACCTCCTTTCCCTTG
GTATTGAACTGCTAGTGGAGTCATGACCATCCTCATCAACTGTAATACCACCATTCTTACCAAGCAGACACAGA
CCTTCATTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGTGAGCGTGCCATGTCCAAGG
ATAACAACCTGCTTGGCAAGTTTGAATTCACGGGCATACCTCCTGAACCCCAAGGTGTTCTCAGATTGAAGTCA
CTTTTGACATTGATGCCAATGGTATCCTCAGTGTCTCTGCTGTGGACAAAAGTACAGGAAAAGAGAATAAAATTA
CTATCACTAATAATAAGGGCCATTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAATTAAAAAG
CTGAAGATGAGAAGCAGAGGGACAAGGCGTCATCCAAGAATTCACCTTGAGTCCTATGCATTCAACATGAAAGCAA
CTGTGGAAGATGAGAACTTCAAGACAAGATTAATGATGAGGACAAACAGAAGATTCTGGACAGGTGTAATGAAA
TTATCAACTGGCACAATAAGAATCGGACTGCCAAGAAGGAAGAATTTGAACATCAGCAGAAAGAGCTGGAGGAAC
TTTGCAACCCCAATCATCACCAAGCTGTACCAGAGTGCAAGGCATGCCAGGAAGAATGCCTGGGGGATTCCCTG
TTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCAACCCAAGTA
TAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTTGTAGCAAATTCGTGGCAGTTTTAA
AAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGGGGAAGGAAA
TAACATTGCACTTTATAAACACTGTATTGTAAGTGAAAAATGCAATGTCTTAAATAAACTATTTAAAATTGGCA
CCAT

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FIGURE 2192

MTILINCNTITPTKQTQTFITYSDNQPGVLIQVYEGERAMSKDNNLLGKFEFTGIPPEPQGV PQIEVTFDIDANG
ILSVSAVDKSTGKENKITITNNKGHL SKEDIERMVQEAEN

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FIGURE 2193

CCGTAGTGTCTCATTGCAGATAATTTTTAGCTTAGGGCCTGGTGGCTAGGTCGGTTCTCTCCTTTCCAGTCGGAG
ACCTCTGCCGCAAACATGCTCCGCCAGATCATCGGTCAGGCCAAGAAGCATCCAAGCTTGATCCCCCTCTTTGTA
TTTATTGGAACTGGAGCTACTGGAGCAACACTGTATCTCTTGCGTCTGGCATTGTTCAATCCAGATGTTTGTGG
GACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGATCAATACAAGTTCTACTCAGTGAATGTGGAT
TACAGCAAGCTGAAGAAGGAACGTCCAGATTTCTAAATGAAATGTTTCACTATAACGCTGCTTTAGAATGAAGGT
CTTCCAGAAGCCACATCCGCACAATTTTCCACTTAACCAGGAAATATTTCTCCTCTAAATGCATGAAATCATGTT
GGAGATCTCTATTGTAATCTCTATTGGAGATTACAATGATTAAATCAATAAATAACTGAAAAAAAAA

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FIGURE 2194

MLRQIIIGQAKKHPSLIPLFVFIGTGATGATLYLLRLALFNPVCWDRNNPEPWNLGPNDQYKFYSVNVDSKLG
KERPDF

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FIGURE 2195

GCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGG
CCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATC
AAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAATGTT
ACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGCGT
ATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAAGAAA
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGAGCTGCTGGAACCTATTCCTATGAATTC
ATGGCATAATAGGTGTT

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FIGURE 2196

MTNTKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGMPhKCYHGKTGRVYNVTQHAVGIV
VnkQVKgKILAKRINVRIEHIKHSKSRDSFLKRvKENDQKKKEAKEKGTWVQLKRQPELLEPIPYEFMA

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FIGURE 2197

GCTCGGGCGCGGGGCGTTCTTGGTGCGCCGGGCCGTGGTGAGTCCGGGCTCCCGTGGCCGCGTGCTGGGAGGAGA
CTGGAGCCCGGTTAGGAAGAATGGAGTTGGCGACTCGCTACCAGATCCCTAAAGAAGTGGCTGACATCTTTAACG
CCCCAGTGATGATGAAGAGTTTGTGGCTTCGAGATGATGTTCCCATGGAAACCTCTCGTCAGAGGAGAGCT
GCGATAGTTTTGACTCAGTACAGAGTCAGGGAAACAGCAGGATGTGCGCTTTTCATTCCAAATACTTCACAGAAGAGC
TAAGAAGAATTTTATAGAGGACACTGACTCAGAGACTGAGGATTTTGCAGGATTACGCAGAGTGATCTGAATG
GAAAGACTAACCCAGAAGTAATGGTCGTGGAGTCAGATTTGAGTGATGATGGCAAAGCATCTTTGGTGAGCGAGG
AAGAGGAAGATGAAGAAGAAGATAAGGCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATTGGTCTTCGAG
TAGCCTTTTCAGTTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAAACAGTTCTTCCGAGCAGTTGTTTTCTA
GCGCACGCTTACAGAATGAGAAAAAACAATTCTTGAAAGAAAGAAAGACTGTAGACAGGTGATACAAAGGGAAG
ATTCTACCTCTGAGTCTGAGGATGACTCTCGGGATGAGAGCCAGGAGAGTTCAGATGCTTTGCTGAAAAGGACCA
TGAACATCAAGGAGAACAAGCCATGCTTGCCAGTTATTGGCGGAATTGAACTCGATGCCAGATTTCTTCCAG
TACGAACCCCAACCTCAGCTTCTAGGAAGAAGACAGTGAGGCGGGCCTTCTCGGAGGGACAGATCACGCGGCGTA
TGAACCCAACCCGGAGTGCGCGGCCTCCTGAGAAGTTTGCTCTAGAGAACTTCACTGTCTCAGCCGCTAAATTTG
CGGAAGAGTTTTACAGCTTCCGAAGAAGGAAGACAATTGGGGGGAAATGCCGGGAGTACAGACGACGTCACCGTA
TATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAAATGTTGCCATAACTGTTTCGAGATAAAA
TCTATGATAAAGTTCTGGGTAAACAGTGCCATCAGTGTGACAAAAAGACCATCGACACCAAGACAGTGTGTCGGA
ACCAGGGTTGTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGAT
CGGCATTGTGGACCCGGATTGGGTGTGTCCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGAAGCGTG
ACGGCCGCTGTGCCACAGGAATCCTCATTATCTGGCCAAGTTTTATGGTTATGACAATGTTAAGGAATATCTGG
AGAGCTTACAAAAGGAGCTGGTAGAAGACAATTAAGAGGAAAACAAACAGAACCAGCCACCTCACCATAGAGTAC
TCCAACAAGACATGCATACCATTGGTGCCTAAGATTTATTAAACTTGACTGAACAAAAGGGGACCATCAACATT
GTAGACACTGGACACTGGAGGCCTTACAGAGTGCTAGCCTCTTCCTTCAGGACTCACCTGGGGCCTGCTGCTTTT
ATATTTTGAAGAGTTTAAGGGCTAATAATTTAATTTGTTGTTTGTAAAAATTAAATCTCCGTTCTTTCCGGC
TGCATTGCTTTTGCATGTTACATATGATGTACTTTTATGATGTACTTTTTTTTTTTTGGAGATGGAGTCTTGTTT
TGTTGCCCAGGAGGGAGTGAGTGGTGCAACCTCGGCTCACTGCAACCTTTGCCTCCTAGGTTCAAGTGATTCTC
CTACCTCCTGAGTAACTGGGATTACAGTCGTGTGCCACCACGCTCAGCCCTGAGTTAGTTTCTAGTATTTTTTC
TGACTTTCACTCTAAGGATAGCGTTGAAAAAAGATGCACGTGTGAGTTACTAAAAAGTTAGAATAATGTGCATG
GGAACAGTGCAGCAACATGCTAGAAAATCCTCACTGCACTCCAGCAGAGGCTAGAGGAATGCCAGTGTTACCTTA
CGCTTCTAGAAGCAGAGCCACTCCAGCCAGAACCCATTTGCAGTCTTCTCTTCGCTCTCAGCCTGAAGTCCA
GATGTAGCTGGGGCCTCTCAGTTTGGTTCTATACACAGGGCACTCGTAGGTCTGTTTGGTTCTTGTCTGTCCAC
GGGGGTGGCTTTTGCAAAGATGACCGGCATAGGGCATGCCAGCTCCTTGAGACGGGCTTCAACAATGGTTCCTGC
TTGGGTGTCCAGCGGGCGCTATGGCAAAAACACAGCGGTTGCAATTGTGTGGCAGCTTGCTACTAATGATAAT
GATCAAGTAAGTTGTTTGATGCAATAAACATTCAACATTCGTGTTTTGTCAT

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FIGURE 2198

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCAIATCAACATTGTCGTCATTGGACACGTAGATTACAGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTAAACAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTAGA
AAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA
GTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACACGCTGCTTG
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTGAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGCTCGTGGCAACGTCGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA
CCGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATIGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGTATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTGTGTTCTGTGATATGA
GACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAA
TGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC
GTAAACCTTCAGAAGGAAAGGAGAATGTTTGTGGACCACTTTGGTTTTCTTTTTTGGGTGTGGCAGTTTTAAG
TTATTAGTTTTTAAATCAGTACTTTTTAATGGAAACAACCTGGACCAAAAATTTGTCACAGAATTTTGAGACCCA
TT

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FIGURE 2199

MLEPSANMPWFKGWKPTRKDNASGTTLLEALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPG
MVTTFAPVNVTTTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRGNVAGDSKNDPPMEAAGFTAQVIILNHP
GQISTGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCYESFSYPPPLGRFA
VRDMRQTVAVGVIAVDKKAAGAGKVTKSAQKAQKAK

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FIGURE 2200

GAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGAT
TACAGGGACATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATA
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
TCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTG
ACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCA
GTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGC
CTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAAC
CCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACACGGAAGTAAATCTGTGAAATGCACCATGAAGCTT
TGAGTGAAGCTCTTCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCA
ACGTCGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACC
ATCCAGGCCAAATAAGCACCGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTG
AGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAATAATGTTCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAG
ACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCAAGCAGTGG
ACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCC
TAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAA

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FIGURE 2201

MVTTCSQVLTCLGTMLLEALDCILPPTRPTDKPLHLPLQDVYKIGGIGSVPVGRVETGVLKPGMVVTFAPVNV
TEVKSVEMHHEALSEALPGDNVGFNVKNVSVDVRHGNVAGDSKNDPPMEAAGFTAQVIILNHPGQISTGYAPVL
DCHTAHIACKFAELKEKIDHRSGNMVPGKPMCVESFSDYPSLGCFVRDMRQIVTVGVKAVDKKTAGAGKVTKS
AQKAQKAK

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FIGURE 2202

TATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCC
TTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACTGGTATCACCATTGATATCTCCTTGTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCCGTATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCC
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTAAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTA
AGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGC
CAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGC
TTGAGGGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTT
CCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTCGCTGGTGAC
AGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGG

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FIGURE 2203

GTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGA
TTCAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCCGTGGCATCGACAAAAGAACCATTGAAAAATT
TGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCG
TGAACGTGGTATCACCATTGATATCTCCTTGTGGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGT
GTGAA

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FIGURE 2204

GAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATT
CAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTG
AGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTG
AACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCC
GGGACATCTCAGGCTGACTGIGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGG

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FIGURE 2205

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCGCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAATGGACATTGTACTTAAAAAAAACA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2206

CCGTGATGTGGCGCCTGCACAXTCCTTTCCCTTTTCGGATTCCCGACGCTGTGGTTGCTGTAAGGGGTCTCCCTG
CGCCACACGGCCGTCGCCATGGTGAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGC
CAGTTTGCCATTGCTGGGGCTTTATCCCTCTTGATTTACCTGGGATTTAAGAGGGGTGCAGATCCCGGAATG
CCTGAACCAACTGTTTTGAGCCTACTTTGGGGATAAAGGATTATTTGGTCTTCTGGATTGGAGGCAATCAGCGG
ACAGCATGGAAGATGTGTGCTCTGGCTCGGATAAGAGATGGGACATCATTCACTAGTTGGATGGCACAAGG
CTCTTCACAGACGCATCTGTAGCAGAGTGGAACTTGTAATACTTATGATAGAATGTATCAGAATAAATGTTTTT
AACAGTGTAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2207

MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIIYLGFKRGADPGMPEPTVLSLLWG

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FIGURE 2208A

GGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATATGSGGTGATGTTGAG
AAAGGCAAGAAGATTTTTATTATGAAGTGTCCAGTGCCACACCGTTGAAAAGGGAGGCAAGCACAAGACTGGG
CCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTGAGGCCCTGGATACTCTTACACAGCCGCAATAAGAAC
AAAGGCATCATCTGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAA
ATGATCTTTGTGCGGCATTAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAAGCTACTAATGAG
TAATAATTGGCCACTGCCITATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGTACCATCCTTTAAT
AGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCTGATTTAAACTAA
GACTGGCTTGTGGTTAAATGAATATGTTCACTTTTTGAATTTAATAGTAACTCCAATTCAGTAAATGGTATCAC
TGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGATGGTGAGTGCCATC
TTAAACTTACTGGAGATTGGTTTTATTTAGATTTATATACTGGTTATGTGAATATATTTAAATACTGGGGA
AATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTTCATGTTCAATTTGCCCTCTTAAAGGCA
AGGGTTGAAGATAAATAAGGTTGCAATGTCTATAGTTTTGGCCTTAACTATGCCAATCTAATTATAATTCCTGT
ATTTAAATGGTTTTCTTTACTTATTGAAAGGCATTTTAGTGTGGTTTTATGTGTAATATTAAAGATTATTCACA
CCTCTCACATCTTACAGATCTATAAGGTCACATGCTTTTAAATAGTAGCAAGTTAACTTCACTCTTGAATTCT
TTACAATCTAAGTCAAATAAGTTATAATTTAGGATTGTCTTTAAACAGCCATTCAGAAACAAACTGTAGAACT
GTGATTTGATTGGGAATGGTGCTTTTGCCAACTTAAAGGATTAAAGTAACGGAGATATACACAAATTTTAAAA
TTATGTGTGATCACAAGACTAAAGATAATTAAGAAAGAAACACAGATCATGACTTTTGACTGTGCTTGATTTT
ATGACTGATGCACAAATTTAATGATTAAAAAGTGCAGGAGCCCTAAATGTCAGTGCAGCAGCCCTAAATGTCAG
TGCAGCAGTGTTAACCAGTCATGGTGCTAGATTGTTTACTTGGTTTTCTAGGACTGCCTCAACTAGAATAACACT
TCACTAATTGACTCTTAGTTCTTTGCTCAGATTGAGAACTGCAGCATTTATGCCAGACATGGACAGAGGAATGC
CTGTGGTCATAGTTTTGTGATGTGTAACAGTGTATAATTACATACTGAATTATTTTCATGCATAGTCTGTGCCATA
CACATTTAGAGTAGTCCTTGGAGATTTTATGGAGATGGTGAGCACAAGGTAAGTCATAAAGAATAATGAGAAAAAT
AAATCTATGCTGGTGACAGCTGAGAACTGTATCTTTGTGGGACAGTGAGAAGACTGAGAAGATGTGAATCCATGGT
CTCAAAGGTGATAGGGACGATTAGATAGGTGTTTTAAGGCCTGAAAGCAATTTATAACATATGAGTCTTATTTTT
ATTTATAGAAATGTGGAAAGCTTGCTGTAATTCATATTTGAAGTCTAGTCTGAGTTCTGGTGGGGAATTTAAAA
ATGCATCCTGGAAATCCTTTAAAGATTTTCACTTTGAAAGGCCTGTAGCAGAGGACTTGGTGACTGTATAAAG
TTAGTGGTATTACAGGACAGTGTAGCAAGTAGCTTACAAGGGGACAATTCTGGACTAATGAGAAAGACCTGAAGT
GAAGGCTAGAGAGTTGATTTTTTTTTTTTTTGGCATCCTGGAAATGATACAGGAAACATATTAAAGATAGATACAG
AAATGTGTTCAACCTTCCATCTTGGCTAGTTGTGGCGTTTAGTTTGTTTTTGAGACATGGTCACGCTGTGTGCGC
CAAGGCTGGAGTGACGTGGTGCGATCTCGGCTGGCTGCAGCCTCTATTTCCAGGCTCAAGCGATTCTCTCACTT
CAGCTTCCCAAGTAGCTGGGACTGCGGGTGTTCGCCACCATGCCAGCTAATTTTTTTGTAGAGATGGAGTTTTG
CCATGTGGTCCCAGGCTGGTCTCAACTCCTGAGCTCAAGCAATCCGTCCACTTGCCTTGGCTCCCCAAAGTGCT
GGGATTGACAGGCGTGAGCCACCAGGCCCTGCCCTGGTTTTCAAATTCAGAAATCTTATTATTTAACCAGAAAGTAA
TCAGCCCAGTAGTAACCTTAGGTTAATTTTTTTTTCAGGTTTAAAAATTTTTCTCAATTTATTTTTCTGAGACGGAG
TTTCGCCCTTTTCGCCAGGCTGAGTACAGTGGTGCAATCTCACTGCAACCTCCGCCTTCCAGTTGCAAGTGATT
CTCCTGCCCTCAGCCTCCTGAGTAGCTGGGATTGCAGGCACCCGCCACCACGCTGGCTAATTTTTGTATTTTTAG
TGGAGATGGTGTTCACCATGTTGGCCAGACTGGTCTTGACTCCTGACCTCGTGATCCACCCACCTTGGCCTCC
CAAAGTTCTAGGATTACAGGTGTGAGCCACCACGTCGGGCCAATTTTTCTCATTTCTATGCCTCCTATATTAAGG
TCTGTGTTGGCACAGATAGTAAGTGCATGTTCTAGGTGAGTTATACCCAAGCACTTCTGGTGGTTTTAAATGT
GATTCGTGTAATTTTTATTTTTTTTGGAGATAATTTCACTCTGTTGCCCAGGCTGGAGTGCAATGGCGT
GATCGCTGCTACCCGCAACCTCCGCCTTCCAGGTTCAAGCGATTCTCCTGACTCAGCCTCTCAAGTAGCTGGGAT
TACAAGCATGCGCCACCATGCCAGCTTATTTTTGTGTTTTTAGTAGAGACAGGGTTTCTCCATGCTGGACAGGCT
GGTCTTGAATCCCGACGTCGGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCAC
CAGCCTGGCCAAATATGTAATTTTTTAAAAAGGACATTTCTATCAGGGATATATACCTTCAGAAATAAGGAAAT
AGGGGAAAAAAGAGCACTATAAACCACATGTTTTCAATTTCTAGTGTTCGCTGTAAAGTGGCTAGGTTGGTAGAA
TCAAAAACAAGGGCCAGATGTATTTAAGGGGATTAGATGCCACCTACATGCTTATTTGTCTAGAACAGTGCT
GTCTAATAGAACTTTCTGTGACGATGGATATTTTTGTAGACTTTTGTGCTCCAGTGTGGTAGCCACTAACCACATG
TGGCTGTTAAGCCCTTGAATATAGCTAGTGTGACTAGAAAGTATTTTATTTTAAATTTACATAGGCACAAGTGG

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FIGURE 2208B

CTAGTGGCTACTGTATTGACATTCTGGGTCTAGGACTAGAACCAGTGGTCTGTAACAAAAGTACTTTCTCTTTAC
TCTATTAAATCTAGAATTAGCCGGGCATGGTCGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCAAGGCAGGC
AGATCACTTGAGGTCGGGCGTTTGAGACCAGCCTGGTCAACATGGCGAAACCCTGTCTCTACAAAAACATAAAA
GTTAGCCAGGTGTGGTGGTGGGCACCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCACAAGAATCACTTGAACCT
GGGAGGTGGAGGTTGCAGTGAGCCAGGATTGTGCCACTGCACTCAAGCCTGGGTGACGAGTGAACTGTCTCCAA
AAAAAAAAAAAAAA

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FIGURE 2209

MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWGEDTLMEYLENPKKY
IPGTKMIFVGIKKKEERADLIAYLKATNE

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FIGURE 2210

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGATGGAGAGAGAAAAGGAACAGTTCGGTAAGCTCTTTATTGGTGGCTTAAGCTTTGA
AACCACAGAAGAAAGTTTGAGGAACTACTACGAACAATGGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCC
TGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACTTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGC
AAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGG
GGCTCATGTAAGTGTGAAGAAGCTGTTTGTGGCGGAATTAAAGAAGATACTGAGGAACATCACCTTAGAGATTA
CTTTGAGGAATATGGAAAAATTGATACCATGAGATAATTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGG
CTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATACCATCAATGGTCATAA
TGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTCAGGAGTGGAAGAGGAGGCAA
CTTTGGCTTTGGGGATTACCGTGGTGGCGGTGGAAATTTCCGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATC
TGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTATAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTT
TGGAGGTAGCCCCGTTATGGAGGAGGAAGAGGAGGATATGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGG
GGGCTACGGAGGTGGTTATGACAACTATGGAGGAGGAAATTATGGAAGTGGAAATTACAATGATTTTGGAAATTA
TAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGGAACTTTGGTGGTAGCAGGAACATGGGGGGACCATA
TGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATACTGAGCTTC
TTCCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAGGATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTT
ATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCATGCATAAATATGCAGTGATATGGCAGAAGACACCAG
AGCAGATGCAGAGAGCCATTTGTGAATGGATTGGATTATTAATAACATTACCTTACTGTGGAGGAAGGATTGT
AAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAATTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTA
GAAGCATTCCCTTTGATAATGTTAAATTTGTAAGTTTCAGGTGACATGTGAAACCTTTTTTAAGATTTTCTC
AAAGTTTGAAGCTATTAGCCAGGATCATGGTGTAAAGACATAACGTTTTTCCTTTAAAAAAATTTAAGTG
CGTGTTAGAGTTAAGAAGCTGTTGTACATTTATGATTTAATAAAATAATTCTAAAGGAAAAA

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FIGURE 2211

MERKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEVDAAAMAARPHSID
GRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSGKKRGFGFVTFDD
HDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSG
RGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNYNDFGNYNQQPSN
YGPMKSGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGRSRY

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FIGURE 2212

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGATGGAGAAAACCTTTAGAAACTGTTTCCTTTGGAGAGGAAAAAGAGAGAAAAGGAACA
GTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACACAGAAGAAAGTTTGAGGAACTACTACGAACAATG
GGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAGATCAAGAGGATTGGTTTTGTAACTTT
TTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAA
ACGTGCTGTAGCAAGAGAGGAATCTGGAAAACAGGGGCTCATGTAAGTGTGAAGAAGCTGTTTGTGGCGGAAT
TAAAGAAGATACTGAGGAACATCACCTTAGAGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAAT
TACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAAT
CGTATTGCAGAAATACCATAACCATCAATGGTCTAATGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCA
GGAAGTTCAGAGTTCTAGGAGTGGAAAGAGGAGGCAACTTTGGCTTTGGGGATTACGTTGGTGGCGGTGGAAATTT
CGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTGGGGATGGCTA
TAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTTGGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATA
TGGTGGTGGAGGACCTGGATATGGCAACCAGGTGGGGGCTACGGAGGTGGTTATGACAACTATGGAGGAGGAAA
TTATGGAAGTGGAAATTACAATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGG
AACTTTGGTGGTAGCAGGAACATGGGGGGACCATATGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAG
TGGGGGTTATGGTGGGAGGAGCCGATCTGAGCTTCTTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAG
GATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTTATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCA
TGCATAAATATGCAGTGATATGGCAGAAGACACCAGAGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTA
TTTAATAACATTACCTTACTGTGGAGGAAGGATTGTAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAA
TTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTAGAAGCATTCTTCTTTGATAATGTTAAATTTGTAAAGTTT
CAGGTGACATGTGAAACCTTTTTTAAGATTTTTCTCAAAGTTTTGAAAAGCTATTAGCCAGGATCATGGTGTAAAT
AAGACATAACGTTTTTCTTTAAAAAAATTTAAGTGGGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTT
AATAAAATAATTCTAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2213

MEKTLETVPLEKREKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDVVMRDPASKRSRGFGFVTFSSMAEV
DAAMAARPHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSG
KKRGFGFVTFDDHDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGGNFGPGPGS
NFRGGSDGYSGRGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNY
NDFGNYNQQPSNYGPMKSGNFGGSRNMGGPYGGGNYGPGSGGSGGYGGRSRY

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FIGURE 2214

CGCTGAGGAGACTCCGGTCACTGTCCTCGCCCCGCTCCCCCTTCCCTCCCCTTGGGGACCACCGGGCGCCACGC
CGCGAACGTAATAGCTCTTCAAGTCTGCAATAAAAAATGCGCTCCAACAAAACCTACATTGCAAAAAATGGGAAAA
AAACAGAATGGAAAGAGTAAAAAAGTTGAAGAGGCAGAGCCTGAAGAATTTGTCGTGGAAAAAGTACTAGATCGA
CGTGTAGTGAATGGGAAAGTGAATATTTCTGAAGTGGGAGGGATTTACAGATGCTGACAATACTTGGGAACCT
GAAGAAAAATTTAGATTGTCCAGAATTGATTGAAGCGTTTCTTAACCTCTCAGAAAGCTGGCAAAGAAAAAGATGGT
ACAAAAAGAAAATCTTTATCTGACAGTGAATCTGATGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAA
CCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAGAATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTT
CTCATGAAATGGAAAGATTCAGATGAGGCAGACTTGGTGCTGGCGAAAGAGGCAAATATGAAGTGTCTCAAATT
GTAATTGCTTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCAGAAGATGAAGCTCAATTAATTGTTTACATTG
TTCTTTTATATATATTTATATATATATATAAAAAATTGGGCTTAGATTTTGATTACTAGTGTGACAAAATAACT
ACATCCTAATGAAAATCAAGTTTGATATGTTTGTGTTTGAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTTCGA
TCCATAGCACTGGTTACTTTGAACAAATAAATAAAAGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTT
GATACCATGGTATATCATTTCCTCTTCATTAAGAAGCAGCTTTCTAAATGTTGGGGGAAATGTCCATAGTCATT
ACTCAGTCAAAAACCTTGTTCTCATGAGCCTAAGGACCATTCTAGATTTATTACGTGTTTTTTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTATCCATAAAATGCATATGTAAATTTTTTTTGTGTTTTAAGCATTACCCAAACAAAA
AAATCACAGGTAAACCCATGTTTCTGAGATGCCATTATCCAGCAAAATAAGAGATAATCCCTTCAAGTTAAAT
TGAAAATTTTCTGAAACCATAACATTTCAAGTGAAATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTT
TAAAGTGTCTATAATTGCAGTGGTTTATTGCAAAATTCCTAAAAGGAAAAATTTATCACTGCCATCACAGCAG
GTTTCCTCATCCAGATGAGGAACTAGACAAATGCTAGTGTGTTTTAACTAGCTAAACAAAACCTAAGTTAAATGA
ACATTTAAAAGTTTCCCTAGCGGGCCATTCCCTTAGCAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAAGGT
CATGATGAATGGAATATGTAAAGACTTGGCTCATAGAAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGAC
CTGCTGTCATAAATGTGTGAACAACCTTTTGTAACTAACCTATTGACCTGCATGTTTTTCTTTACCCCAATTC
ATTACATGGAGGCTCAATCTTGAGTTTGCTTTACTGGTTTACGAAAAGCCAGGAAGAACAACCTTTGTAGTAATCA
AAATGTTATCCAACGTATATTGTTTACTTTATTGTAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATT
CCTTTATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2215

MASNKTTLQKMGGKQNGKSKKVVEEAPEEFVVEKVLDRRVNGKVEYFLKWKGFTDADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYEERLTWHSCPEDEAQ

TCCCCCGGCGGCCCGCCGCGCAGCTCCCGGCTCCCTCCCCCTTCGGATGTGGCTTGAGCTGTAGCGCGGGAGG
CCGGAGACGCTGCAGACCCGCGACCCGGAGCAGCTCGGAGGCGGTGAATAATAGCTCTTCAAGTCTGCAATAAAA
AATGGCCTCCAACAAAACTACATTGCAAAAAATGGGAAAAAAACAGAATGGAAAGAGTAAAAAGTTGAAGAGGC
AGAGCCTGAAGAATTTGTGCTGGAAAAAGTACTAGATCGACGTGTAGTGAATGGGAAAAGTGGAAATATTTCTGAA
GTGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAAAATTTAGATTGTCCAGAATTGATTGAAGC
GTTTCTTAACCTCTCAGAAAGCTGGCAAAGAAAAAGATGGTACAAAAGAAAACTTTATCTGACAGTGAATCTGA
TGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAACCAAGAGGATTTGCCAGAGGTCTTGATCTCTGAAAG
AATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTTCTCATGAAATGGAAAGATTAGATGAGGCAGACTT
GGTGCTGGCGAAAGAGGCCAAATATGAAGTGTCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAACTTGGCA
TTCTTGTCAGAAAGATGAAGCTCAAT**TAAAT**TGTTTCACATTGTTCTTTTATATATATTTATATATATATAAAAAAT
TGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACTACATCCTAATGAAATCAAGTTTGATATGTTTGTT
TTGAAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTGCATCCATAGCACTGGTTACTTTGAACAAATAAATAAA
AGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTTGATACCATGGTATATCATTTCCTCTTCATTAAAGA
ACAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATTACTCAGTCAAAACTTGTGTTCTCATGAGCCTAAGG
ACCATTCTAGATTTATTACGTGTTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCATAAAATGCATAT
GTAAATTTTTTTTTGTTTTTAAGCATTACCCCAAACAAAAAATCACAGGTAAACCCCATGTTTCTGAGATGCCAT
TATTCCAAGCAAAATAAGAGATAATCCCTTCAAGTTAAATTGAAAATTTTCTGAAACCATACATTTCAAGTGAA
ATAAGTAATTTCTAGATAGGACAATTTAAATTGGATAATTTTAAAGTGTCTATAATTGCAGTGGTTTATTTGCAA
ATTCTTAAAGGAAAAATTTTATCACTGCCATCACAGCAGGTTTCTCATCCAGATGAGGAACTAGACAAATGC
TAGTGTGTTTTTAACTAGCTATAACAAAAC**TAAGTTAAATGAACATTTAAAGTTTCCCTAGCGGGCCATTCTTAG**
CAAAATGTTTGGAAATCCCTGTGTGCTACATTGACTAAAAGGTCATGATGAATGGAATATGTAAGACTTGGCTCATAG
AAACCTAATCAGATGGTTAGAGGTTGTGGCAGTTTTAGGACCTGCTGTCTATGAAATGTGTGAACAACCTTTTGTAAC
CTAACCTATTGACCTGCATGTTTTTTCTTTACCCCAATTCATTACATGAGGCTCAATCTTGAGTTTGCTTTACT
GGTTCAGCAAAAGCCAGGAAGAACA**ACTTTGTAGTAATCAAATGTTATCCA**CTGTATATTGTTTACTTTATTG
TAAATACTGGTGAACAGTGGTTAATAAAATAGTTTTATATTCTTTTAIGCAA

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FIGURE 2217

MASNKTTLQKMGKKQNGKSKKVEEAEPPEFVVEKVLDRRVVNGKVEYFLKWKGFDTADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2218

GACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGGGTCCCCGCG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCAGGCGACCGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCTCGGTGGAT
CCAACATGGATTTAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTTG
TTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGTCTGTCAGCCGCCACTCTGCGCCTGCCATTGGCCTCTCACAGCGGAAACACAGCT
TGTGAGTGCATGTGCTGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGCTTTTTCTCCTGCTCCTTGTTTTCCAG
CAGCACACGGGGTTTCTCGGAGGAGCAGAGGTGGCCGCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT
TTCCTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGAGTTTCTTTTCACTCCCTCAGTGTCTCTTT
CTGACCTGCATGTTGAGTTCGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAAGTGCAGA
GACCTTGTGGTATTAGCTGTGATGGATATAGAGAATCGGAGGCACCTTGTTTTCACTAGGATAAAAAATAT
CTGCAGGGTCCCTTTCCATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCCATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGCATGCATTACACGTGTGTGTGTCCCAGCTAGTTCACTCCTTTCCCGTGCCTGGTGGAGG
CTCGCCTCTCTGGCCGGGTGCAGTGAACGGCCAGCGGGTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA
GGGGGTGGTGTGCTGGCGCTGCACTGGGCTGACTGCGGCGCTGACACAGCGTTTCCCCCATCCCTGTTGCCTGTGT
GTTGTGTGGATCTGTTTCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCCTTTGATAAATTGACTGTGCAGAGCTGTGAGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGCCTAGGCTGCGGCCACATCTTGGGGACACACTGGATTGTTCCCATGTGC
AGGGTTCAGCACTTACGTGGGAGTGTAGGGGTTAGGCTTTTGTAGCTTGAACGCCTGCGTGTGAACAGATGAAA
ATCCTTCAGTACCCAAGTCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCCGCGCAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGTGGCTGGGGCACCAGCGGAATGTGCTTAGTATTTGGTCAAC
AGCCGTATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCCCT
TCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTCAGAAAAGACATG
CATTATGTGGTGAATCAAACCCGAGGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAGAATGGAATTCCAAACACTTAACAC
ATTGAGCTATATGACAGAAAGTAAATCTATGGATATGCTATTTGTGAATGATCTTTTAAATAAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2219

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGGCCCTCCCTCGG
TGGATCCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCG
AACAGTCGCGACGCCCCCTCAATCAAGTAGCCAATCCCACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGA
AGTTGTTCAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAG
CCTGGTGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACA
CAGCTTGTGAGTGCATGTCAGCTGTTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGC
CTGTTTGTGCGTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCCACCTGTCAGCTTCTCT

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FIGURE 2220

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGG
CAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCT
CGGTGGATCCAACATGGATTTAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACC
TCGAACAGTCGCGACGCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGA
GGAAGTTGTTCAAAAGGAGCAAAATTGAGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCAT
GTCAGCTGTAAACAAGTGGTTTTTAGTACATTTCGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTT
TTCTTTCTTCGCTGCTTCCCCATTTTCCTTC

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FIGURE 2221

MADFDTYDDQAYSSFGSGRSGRSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVVRGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS
PGDRRTGPPMGSRFGDGPPLGGSNMDFREPTEEESAQRPRQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQK

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FIGURE 2222

CGCGTCAGGCCGCTCCTCTCGGCTCCGCGCTCCTTCCCTCGCGCTGGGCACCCGCCCCCGAGCGGTGAGAGCGC
GTGCGCGCGCGCCCTTCTCCGTGGGCGAGCCAGCCAGTCCCGCTGCACACGCTCGCAGTCTGTGGGCCCTCCGGG
AGGCGGCGGAGGTACCCGCGGGGAGAGGGCGGGCGCAGCATGGCAGCCTCCTTACGGCTCCTCGGAGCTGCCTC
CGGTCTCCGGTACTGGAGCCGGCGGGCTGCGGCCGGCAGCCGGCAGCTTTGCAGCGGTGTGTTCTAGGTACGTGGC
TTCAAAGACTCCAGTTGGATTCAATTGGACTGGGCAACATGGGGAATCCAATGGCAAAAAATCTCATGAAACATGG
CTATCCACTTATTATTTATGATGTGTTCCCTGATGCCTGCAAAAGAGTTTCAAGATGCAGGTGAACAGGTAGTATC
TTCCCCAGCAGATGTTGCTGAAAAAGCTGACAGAATTATTACAATGCTGCCACCAGTATCAATGCAATAGAAGC
TTATTCGGAGCAAATGGGATTCTAAAAAAGTGAAGAAGGGCTCATTATTAATAGATTCCAGCACTATTGATCC
TGCAGTTTCAAAGAATTGGCCAAAGAAGTTGAGAAAATGGGAGCAGTTTTTCATGGATGCCCTGTTTCTGGTGG
TGTAGGAGCTGCACGATCTGGGAACCTCACGTTTATGGTGGGAGGAGTTGAAGATGAATTTGCTGCTGCCCAAGA
GTTGCTGGGGTGATGGGCTCCAACGTGGTGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAGATCTGCAA
CAACATGCTGTTAGCTATTAGTATGATTGGAAGTCTGTAAGCTATGAATCTTGAATCAGGTTAGGGCTTGACCC
AAACTACTGGCTAAAAATCCTAAATATGAGCTCAGGACGGTGTGGTCAAGTGACACTTATAATCCTGTACCTGG
AGTGATGGATGGCGTTCCCTCGGCTAATAACTATCAGGGTGGATTTGGAACAACACTCATGGCTAAGGATCTGGG
ATTGGCACAAGACTCTGCTACCAGCACAAAGAGCCCAATCCTTCTTGGCAGTCTGGCCCATCAGATCTACAGGAT
GATGTGTGCAAAGGGCTACTCAAAGAAAGACTTCTCATCCGTGTTCCAGTTCTACGAGAGGAGGAGACCTTCTG
AGTGTGCCCTTTGGCCACGGACACTGTTGGGAACCAAACCTCTGTCTTGGAGCCTCCTTTTAGCTCACTCCACAAG
TAAATGGATTTAATCAAAGGTCACCTATCTGCTTTTGATTGTCTAGGTACAGTAATCCCTAGGATTTTTCACCG
CTTATTCTTTTGTCTTTTAAACAAACATATTATCCGAATTTTTTTCTGCAAGCCACTGATAGTCTCTGCTAAC
TAGCTTAATTGACCTTTTACAAAGTTTGATCCCCAAGCATCTCAACTAAATCATTGAATACTTCAATCAGGAT
ATTATCTGCTTTACTTTACAAATAAAACCAAATCTTTTGTCACAGGATGAAACCCATCTTAAAGGAAAGAAAAG
GAATTGGTGTGAAGAGAGAAGTTAGAGAAGGGAAATGCAGTGAATTACTATCTGTGTCCATCAGGAAGTTTGTCC
TGTTAACCAAATGGTTACTGCACTACCAGGGTTACTGGTTATTTTCCAGGGAGCTGATAAAGCAGGAGAACTGT
TGCTGCATGTTTTCTATTTGGACTCCGTCACAATATGGTAGGATATCCCTCACCAACTCCCGACACTCAGCAGAC
TTGTTTTTATATTTTTTCTTTCTTGTTCATTCTTACTACGTATTTTTTGACTTAAGAATGACATCTTTAGATGC
ATTCAGAGCCAATGATGATATTTGCTTTAGATAATTATTATATTATATAAATATAGCCATATTATTTTGAATT
CAAATAAATTTCTATACTGGT

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FIGURE 2223

MAASLRLLGAASGLRYWSRRLRPAAGSFAAVCSRSVASKTPVGFIGLGNMGNPMAKNLMKHGYPLIIYDVFPDAC
KEFQDAGEQVSSPADVAEKADRIITMLPTSINAIEAYSGANGILKKVKKGSLIDSSTIDPAVSKELAKEVEKM
GAVFMDAPVSGGVGAARSGNLTFMVGGVEDEFAAAQELLGCMGSNVVYCGAVGTGQAAKICNNMLLAISMIGTAE
AMNLGIRLGGLDPKLLAKILNMSSGRCWSSDTYNPVPVMDGVPSANNYQGGFGTTLMAKDLGLAQDSATSTKSPI
LLGSLAHQIYRMMCAKGYSKKDFS SVFQFLREEETF

GACGCAAGGCCTACTGTGCGCTGGGAGGGGAGGTGTAGCCGGTCTTTGGGGGTAGGCCGTTAGTGCGGGAAGAGGT
 TCGGCGGCTGATGGCGGATCAGGATCGGAAGCCTGCGIAACTTTCTCCCTTGATCCGGGAGTCTTTCCACTGGAT
 TCACAAATGACATCCTTTCAAGAAGTCCCATTCGAGACTTCCAACCTTTGCCCATGTCATCTTTCAAATGTGGCCA
 AGAGTTACCTTCCTAATGCACACCTGGAATGTCATTACACCTTAACCTCCATATATTCATCCACATCCAAAAGATT
 GGGTTGGTATATTCAAGGTTGGATGGAGTACTGCTCGTGATTATTACACGTTTTTATGGTCCCCTATGCCTGAAC
 ATTATGTGGAAGGATCAACAGTCAATTGTGTACTAGCATTCCAAGGATATTACCTTCCAAATGATGATGGAGAAT
 TTTATCAGTTCTGTTACGTTACCCATAAGGGTGAAATTCGTGGAGCAAGTACACCTTTCCAGTTTCGAGCTTCT
 CTCCAGTTGAAGAGCTGCTTACTATGGAAGATGAAGGAAATTCGACATGTTAGTGGTGACCACAAAAGCAGGCC
 TTCTTGAGTTGAAAATTGAGAAAACCATGAAAGAAAAAGAAAGTCTTAAAGTTAATTGCCGTTCTGGAAAAAG
 AAACAGCACAACCTTCGAGAACAAGTTGGGAGAATGGAAGAGAACTTAACCATGAGAAAGAAAGATGTGACCAAC
 TGCAAGCAGAACAAAAGGGTCTTACTGAAGTAACACAAAGCTTAAAAATGGAAGTGAAGAGTTTAAAGAAGAGGT
 TCAGTGATGCTACATCCAAAGCCCATCAGCTTGAGGAAGATATTGTGTCAGTAACACATAAAGCAATTGAAAAAG
 AAACCGAATTAGACAGTTTAAAGGACAACTCAAGAAGGCACAACATGAAGAGAACAACTTGAATGTCAGTTGA
 AGACAGAGAAGGATGAAAAGGAACCTTTATAAGGTACATTGAAGAATACAGAAATAGAAAATACCAAGCTTATGT
 CAGAGGTCCAGACTTTAAAAAATTTAGATGGGAACAAAGAAAGCGTGATTACTATTTCAAAGAAGAGATTGGCA
 GGCTGCAGTTATGTTTGCTGAAAAGGAAAATCTGCAAGAACTTTCTGCTTACAACCTCAAGTAAAGAAGATA
 CTTGTTTTTTTAAAGGAGCAACTTCGTAAAGCAGAGGAACAGGTTTCAGGCAACTCGGCAAGAAGTTGTCTTTCTGG
 CTAAGAAGTCAAGTGAATGCTGTCAACGTACGAGACAGAACGATGGCAGACCTGCATACTGCACGCTTGGAAAACG
 AGAAAGTGAAAAGCAGTTAGCTGATGCAGTGGCAGAACTTAAACTAAATGCTATGAAAAAAGATCAGGACAAGA
 CTGATACACTGGAACACGAACCTAAGAAGAGAAGTTGAAGATCTGAAACTCCGTCTTCAGATGGCTGCAGACCATT
 ATAAAGAAAAATTTAAGGAATGCCAAAGGCTCCAAAAACAAATAAACAACTTTCAGATCAATCAGCTAATAATA
 ATAAATGTCTTCACAAAGAAAACGGGGAATCAGCAGAAAGTGAATGATGCTTCAGTAAACACAGACCCAGCCACTT
 CTGCCTCTACTGTAGATGTAAAGCCATCACCTTCTGCAGCAGAGGCAGATTTTGACATAGTAACAAAGGGGCAAG
 TCTGTGAAATGACCAAAGAAATGCTGACAAAACAGAAAAGTATAATAAATGTAAACAACCTCTTCGAGGATGAGA
 AAGCAAAATGCAATAAATATGCTGATGAACTTGCAAAAATGGAGCTGAAATGGAAAAGAACAGTGAAAATGCTG
 AAAATGTAAAACCTTGAAGTGTGAGTACAGGACAATTATAAAGAACTTAAAGGAGTCTAGAAAATCCAGCAG
 AAAGGAAAATGGAAGGTGAGAATTCCAGAGTCTCAATGTTTCAAAACATGCTCAGAGCAAAATGGTTATGTTT
 TCACATTGTCAAATGCACAACCAGTTCTGCAATATGGTAATCCTTATGCATCTCAGGAAACAAGAGATGGAGCAG
 ATGGTGCTTTTTTACCAGATGAAATACAAAGGCCACCTGTGAGAGTCCCCCTTGGGGACTGGAAGACAATGTTG
 TCTGCAGCCAGCTGCTCGAACTTTAGTGGCCCTGATGGCTTAGAGGACTCTGAGGATAGCAAGAAGATGAGA
 ATGTGCCTACTGCTCCTGATCCTCCAAGTCAACATTTACGTGGGCATGGGACAGGCTTTTGCTTTGATTCCAGCT
 TTGATGTTTACAAGAAGTGTCCCCTCTGTGAGTTAATGTTTCTCCTAACTATGATCAGAGCAAAATTTGAAGAAC
 ATGTTGAAAGTCACTGGAAGGTGTGCCCGATGTGCAGCGAGCAGTTCCCTCCTGACTATGACCAGCAGGTGTTT
 AAAGGCATGTGCAGACCCATTTTGATCAGAATGTTCTAAATTTTGAAGTACTTCTTTTATGAGTTAATATA
 GTTTAGCAGTAAAAAAGAAAAAACCACACCTAAATAGACCACTGAGGAGACCATAGAGCGGATGCTTTCA
 TGCACCCTTTTACGCACTTTCTGACCAGGAGCACTTTGAGTTTGGTGTTACTAGGATCAGGGTCAGTCTTTGGC
 TTATCAATAAAATTTAATCTCTGTTAATGTTACTTACCTGCTTTAAAAAAGTCTTGTGTGTTCTGATCTTTATTTA
 TTCCCTAGTTTGCAGAACTGTCTGAATAAAGGATACAAGGATTATTTCAATGTTACTGCACTGAAAAACGTGTAT
 GTATTAGTGTCTAGATTATTTAGCAGAATATTCACAAGTTTCTGTTGACCTTGTTGATTGAGCATGACTACTAA
 ATATTATGTAATAAAAAGCATTGTGCATAAC

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FIGURE 2225

ATGGAGAAGCAGAGAGGGAAGTGCAGAGACAGGTCACCCAGGCGCCTGGAAACTGCCTCTATGGCCTTCACGGGA
AACGGCCTCTTTCTACTCCGGATCCCAGACTGTGTTTCTTTGAAACTGACCGTCAGAGGAGAGCGGCTGGAGGCG
GACAGACGTCTGCAGTGGGAGGCGCTCCAGGCGTTCCAGGCAGTGTCTGCCGGCGAGTCACCCGCGACCGCGAG
TCACCTCACCAAGCCCTGAATTGGGACAGGAGACGAGACGTGTGACGAGCTGCGGAGTTCCTCGCTTCTCTGGG
CCCTGCCAGCTCACAGCCAAGGTGCACCAGAGCCTCCGTCACCGCCCCTACAGAGCACGTACTTTTATCACACGA
ACTATGACTCAGACACCACAAACCCAGACCAGGCCTCCAGGTCAGAAGTTGACTCCCCTGAGGCCTGTGGTAGGA
GAATGTGGTCTGGAAAATGAGGTGTCACTGGTGATCAGACATCATCACTTTTCTAGTGACTGTCAGCTTAGTTTT
GTCCTACAGTTGTCTTGA

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FIGURE 2226A

CCCCGACTAGCCCGACAGTCCCCGACTAGCCCGACAGCCCCAGCAGGATCTGCATCGTTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTCTATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCAATTTTCCGCC
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGCTGTGTCAGCAGTGACTCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTACAGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCTCGGAAGGGCCTCAGTCGGGCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCTATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCTGTGAGAAAGCCCTCAGTGTCCGCCAGATGCAGGCCTATGGGCAGAGCAGTACT
CCACACAGACCTGGGTGCGCCAGCAGAGATGGTTGTAGCTACACAGTATAGCTTCGCCCCAGATGGGGAGGCC
GGCTGGTGAGCCGCTGCCCCGAGACAATCCTGGCCTCGTCCAGGCCCAGCCAGAGTGCCACTCACCCCCACCC
GAGGGACACAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCAGCAAAGCGTTCAAACCCAGGTTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG
GCCCCCTCCCAGGCTCGCCACCCCTGGACATCGACAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGCAGCTGCCCTTCTCAAATGTGCATGGGGAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAATTT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTACGCCCACCTGAGCCCCCGCTGAGCAGCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTACGCTGTGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTCAGCAGGCTTTTGCTTCTTCTGACCATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAAGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTCCC
TGCTGGGGAGCGGGCCGCCCCACCGGAAGTCCCCTCAGCGCTGAGTTCTCCGTACCAGGAAGGACTCCCCAGTGC
TGTCCTGCTTCCCGCCGTCAGAGCTCCAGGCTCCTTTCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCGAGG
AGGACCTGGGGGCTTGTGTCCTGCTCCCAACTTCTCAGGTCGTCACCGACCCCAAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCTCCCAACTTCTCAGGTCGGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGTTGTGACCTGCCCCGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGAGGGGGATCGTT
CTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC
CAAATGTCTCTCCGACTTTTCCAAGGCTTCAGAAGCGGCTCACCTCTGCCAGATAGTCCAGGTGATAAATTG
TGATCGTGAAATTTGTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTATTGTTGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCAGTCTGCACTGAACAAGAAAGCTGGAGATTGGCCAATGAACCTGTCC
GGCACTTTTTGATCGAGTGTACCCCGAAGGGAGTGGGTTGAAAGGGTGTGCAATGAACCATATTTCCGGAGCC
TGACGGCCTTGGTGTGCCAGCATTCATACGCCCTTGGCCTTGGCGTGAAGCTGCTTATCCAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTACAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGTTACTTGAACCTGTGGAGATGGAGTCCCTACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTGAGCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTCCGGAGGCATTACCCCGTGAACAGTGTGATTTCTGTGCCTTGGACC
CAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTGTGGCCCGGAAGCAGGGCAGT

FIGURE 2226B

[illegible]

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FIGURE 2227

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDLIRWDSYENLSADGEVLHTQGPDVGSLEYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVAQVHVN
GDAALKDRETDILDDEMPHDLHSVDSLTLSSSEGPQSAHLGPFITCHKSSQNSLLSDGFGSNVGEDPQGTLPD
LGLGMDGPYERERTFGSREPKQPQLLRKPSVSAQMQAYGQSSYSTQTWVRQQQMVAHQYSFAPDGEARLVSR
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPDQVVNGAGPELSTGPPSGS
PTLDIDQSIEQLNRLILELDPTFEPITHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRKLKSLGQYDNDAGGQLPFKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPQDLIDGRILSSKES
MCSTPAFPVSPETPYVKIALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESSPKPMVSLGSGRPTGSPLSAEFSGTRKDSPVLSCFPP
SELQAPFHSHELSLAEPDPSLAPPSSQAFLGFGTAPVSGSLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTIVAPGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGSPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLKDKKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSNVEMESLTGHQAIQKALSITLVQEPVSTVVFHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWKIDGPPSSKVFVGFVARKQGSATDNVCHLFAEHDPEQPASAIVNFVSKVMIG
SPKKV

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FIGURE 2228

GGCACGAGGCACAGCTTCGCGCCGTGTACTGTCGCCCCATCCCTGCGCGCCAGCCTGCCAAGCAGCGTGCCCCG
GTTGCAGGCGTCA**ATG**CAGCGGGCGCGACCCACGCTCTGGGCGGCTGCGCTGACTCTGCTGGTGCTGCTCCGCGGG
CCGCCGGTGGCGCGGGCTGGCGCGAGCTCGGGGGGCTTGGGTCCCGTGGTGCGCTGCGAGCCGTGCGACGCGCGT
GCACTGGCCCACTGCGCGCCTCCGCCCGCCGTGTGCGCGGAGCTGGTGCGCGAGCCGGGCTGCGGCTGCTGCCTG
ACGTGCGCACTGAGCGAGGGCCAGCCGTGCGGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCG
TCGCCCCAGCAGGGCGCGACCGCTGCAGGCGCTGCTGGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTCAGC
CGCCTGCGCGCTACCTGTGCCAGCGCCGCCAGCTCCAGGAAATGCTAGTGAGTCGGAGGAAGACCGCAGCGCC
GGCAGTGTGGAGAGCCCGTCCGTCTCCAGCACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAG
ATAATCATCATCAAGAAAGGGCATGCTAAAGACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGAT
ACCCAGAACTTCTCCTCCGAGTCCAAGCGGGAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTG
AATCACCTGAAGTTCTCAATGTGCTGAGTCCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTAT
AAGAAAAAGCAGTGTGCCCCCTCCAAAGGCAGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCT
CTCCCAGGCTACACCACCAAGGGGAAGGAGGACGTGCACTGCTACAGCATGCAGAGCAAG**TAG**ACGCGCTGCCGCA
AGGTAAATGTGGAGCTCAAATATGCCTTATTTTGACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAG
CCTCGATTATATTTCTGTTTGTGGTGAATGATTTTTTTTAAACCAAAGTTTAGAAAAGAGGTTTTTGAAATGCC
TATGGTTTCTTTGAATGGTAAACTTGAGCATCTTTTCACTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTCT
TGTCGCTTCTATCAAAATATTAGAGACTCGAGCACAGCACCAGACTTCATGCGCCCGTGGAATGCTCACCAC
ATGTTGGTCGAAGCGGCCGACCACTGACTTTGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACAGCTTCAC
CCCCACTCCCCGTACAGTGCACAGGCTTTATCGAGAATAGGAAAACCTTTAAACCCCGGTATCCGGACATCC
CAACGCATGCTCCTGGAGCTCACAGCCTTCTGTGGTGTCAATTTCTGAAACAAGGGCGTGATCCCTCAACCAAGA
AGAATGTTTATGTCTTCAAGTGACCTGTACTGCTTGGGGACTATTGGAGAAAATAAGGTGGAGTCTACTTGT
AAAAAATATGTATCTAAGAAATGTTCTAGGGCACTCTGGGAACCTATAAAGGCAGGTATTCGGGCCCTCCTCTC
AGGAATCTTCTGAAGACATGGCCCAGTCGAAGGCCAGGATGGCTTTTGCTGCGGCCCGTGCGGTAGGAGGGA
CAGAGAGACAGGGAGAGTCAGCCTCCACATTAGAGGCATCACAAGTAATGTCACAATTCTTCGGATGACTGCAG
AAAATAGTGTGTTTGTAGTTCAACAACCTCAAGACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGGCAAAGCTT
ATTTTCATCTCTCATCTTTTGTCTCCTTAGCACAATGTAAAAAGAATAGTAATATCAGAACAGGAAGGAGGAA
TGGCTTGCTGGGGAGCCCATCCAGGACACTGGGAGCACATAGAGATTCACCCATGTTTGTGTAACATTGTATACAACATAGC
CCCAAATATAGTAAGATCTATACTAGATAATCCTAGATGAAATGTTAGAGATGCTATTTGATACAACCTGTGGCCA
TGACTGAGGAAAGGAGCTCAGCCCCAGAGACTGGGCTGCTCTCCCGGAGGCCAAACCCAAGAAGGTCTGGCAAAG
TCAGGCTCAGGGAGACTCTGCCCTGCTGCAGACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACA
GAGGGGTCTCAAGACATCTGCCTACCTATTAGCTTTTCTTTATTTTTTAACTTTTGGGGGGAAAAGTATTTT
TGAGAAGTTTGTCTTGCAATGTATTTATAAATAGTAAATAAAGTTTTTACCATTAAAAAAATAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2229

MQRARPTLWAAALTLLVLLRGPPVARAGASSGGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCAL
SEGQPCGIYTERCGSGLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVE
SPSVSSTHRVSDPKFHLHSKIIIIKKGHAKDSQRYKVDYESQSTDTONFSSESRETEYGPCRREMEDTLNHLK
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

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FIGURE 2230A

GCGGGTGTTTCGCTACGTCACTGGGGCGCTACAGTACCTGGAGCTGGGCAGTCTTCTCATCAGAGTGGGGACTAA
TAACAGTGACCTCCCCGCCAGGTCCTGTGTGTGGCCGGCTGAAGAAGGATGATGATTATCCCCACCTTCTGAGA
GACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAAGACCCGCCAATGCTGGGGAACGGAAAATGAGGGAGTT
CAACTCTGGCCCTCACAATCCAGTGGAGGAGACGAAACTCATCTGCCTCTGTCCCTCTGGGCACGCTTTCATGCCA
GGTGATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGGAGAAAGCTGCCAGGCTCAGAGCCACCTAA
GCTGAAGATTCCCTTGAGAACAAGTACTGTCTGTGGTTTCATGGCCTTCTTCCATTGTGGTTCTTGTGAAGT
GGAATTTAAATGACATCTTATCAAGATGGATAAACCTAGTTTCCAGTGCTGGAATATAGAAAATGGATGGACA
AGTAAATCCCACCTCATCACCCATAGTCCAGGCATGGGGACCTCAACACACCTGAGCCCCAGACATCACCTTTCAT
TCTGGACCTACCATGAAAGACTTCTGAATCCAGGAAGAGAGACTGACTGGGCAACATGTTGTTGAGAAACAGGAC
CTTGCCCTGTCTATTAGGATGGAGTTCAGTGGTCCAATCATGGCTCATTGTAGCCTCAAACCTCCAGGCTCAAGC
AATCCTACCATGTGACGCTTCCCAGTAGCTGGGACTACAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAA
GAGAGACTGACTGGGCAACATGTTATTCAGGGTCTCCCTCTCTTGTCCAAGGCTGGAGTGTAGTAGTGCTATCAC
AGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCCATCTCAACCTCCACGTGGCTGAGACTATAGG
TGCTTGCCACTATGCCCAACTAATATTTGGAATTTTCTATACGTGGATTCCAGAGGGGTGACAGCGAAACGTGA
GACCATCCAGTTGCAGAAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCCCCCTACCTCCCGGCAGCCTC
TCCAGGCCCAGAACTTCTCCAGTCAAGCTCCACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCAT
CCCTACCTCACGGCAGTCTCTGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCACCGTTAC
AATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAGCTTCTCAAGTCGACCTCACC
AGGCCCAGCTCATGCTTCTTGGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGCAGCCTCTCCAGGCCCAGCCT
CTGCCTCCTGTGAGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCCAGGCCCAGTATCTGCCTCACTG
TGGACCACCCAAGCCAAGCTCCCAACCTTTCAGCAGCTTCTACACACCAGCTCCTGCCACCCAGTGGCCCTCTTT
AGGCCAAGCTCATGCCTCACAAGGGCCTTTCAGGCCCAACTTTTGTCTCATGGCAACCTTCCCTGGCCACATTC
CTGCCTGTCTCCAGCAGCCTAGACAGGCCCAGGTCTTGCTCACACTGGCTGTCTACATCCAGCTCTTGCCCTC
ACGGTGGCCTCTCCAGGCCCAGCTCCTGTCCAGGACGTCTCTCCAGGCCCAAACTTCTCAAGTCAGCCTCT
CTAGTCCCAACTGTCTGCCTCCTGGTGGCCTATGAAGGCCAAAATCTCCTCAAGTTGACCTCTCCAGGCCCAGCT
CCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGGCCCAGCTCTTCTCTGGG
CTGAGTCTACAGGCACAAGTGTGCTCACAACAGCCTTTTTTGGCCAGTTCTGTGCTCAGCTCACAGCGACCAA
TGTAGGCCCAAACTTCTCAAGTCAAACTCTCCAGGCTGCCTTCTTCTGTTGGCATGAACAGGCCCAGCTTT
GACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCTCCAGGGGCTTCTCCAGGCCCAGCTCTTGCTCATGGC
GGCTGCCCCAGGCCAAGTTCTGCTGCTGCTGCCAGCAGCTCAACAGGCACAGCTCTTCCCTCACAGTGGCCCAT
TTAGGCCCAACTCATGACTGTGCGGCCATTTCAGGCCCTAGTGCTGCTCCTGCTGACTCTTGAAGCCCAAAA
CTTCTCAAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCACAGTGA
CCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCAGCAGCCTCTACGGGCC
CAGCTCCTGCCTTGCAATGGCCTCTTTAGGCCAAGCTCATGCCCCACGGCGACTTTTCCAGGCACAGCTTTTGCC
TTTTGCAGCCTGTCCAGGCCCAGAATGTCTTAAGTCCGGCTCTCCAGGACGAGCTCATCCTCCAGTGCCTCTA
CAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGTCCAACCTCTGCTGAGCTGCTTGGCAGCCTCTGTAGGCC
ACAGAGTTCTTAAAGTAAAGCTTTCCAGGCCACCTTCGGCTCCCGGCAGCCTCAGCAATCAAATATTCCCTC
ACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACAGCATCCTCCGAAAAGTGAAGCTTTGCCTCACGGTGG
CCTCCCGAGGCCACGAATCTGCCTGCCTCCAGGCAGCTGCTGCCTCACAATGGTCTCTTTAGGCCCAGCTCTTG
CTAAAAGACAGACTCTCCAGGCACAGCTCTTGCTCTGCTGCGAGGCTCTGAGGCCCAAAATCTCCAAAAGTGGC
CTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTACACAGGCCCAGACTCTTACCACACAGTAGACCTCCAGGC
CCACCACTTGCTGAGCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTTGGCAGCCTCTACAGGCCCAGCTCCTGC
CTCGCAATTGCCTTTGTAGGCCAAGATCATGCCGCGAAGTGGCCTTTCTAGCCTAACTTTTGCTTTTGTAGCGCA
TACTCCGGTCCCAAACTTCTCCAGTCAGCCAGTCCAGGCCAAGCTCTTCTCCCAAAGGCTTCTGCAGGCCAA
AATCGTCTGAAGTCACCTCTGCAGGCCCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATGCCTCACA
GCACACTTTCCAGGCTGAGCATTTCTTTTTGTGATCCTCTCCAAGCCCTGAACCTTACTCCAGTTGGCTCTCCA
GACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCCAAAATGTCTCAAGTCAGCCTCTCCAGGCCCAACTCCTA
GCTACCGGTGGCTTCTGCAGGCCAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGTCTGTAAGTGGC

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FIGURE 2230B

CTCTGCAGGAGCAAACTGCCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCTTCCCGAGGGCATGTACAGGCC
CAGCCTCTGCCTCACAGCAGACTCTCCATGCCCAGCTCTTCCCTGTCTGCTGCCTCTCCAGTCCAAAGCTGCGCC
TGCCTTTCGGCAACTTGTACGGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTTCGCCCAACTCATGCCCTCTTGCA
ACCTGCCCAAGTGTACAGCTCCTGCCTCACACTGGCCTCTTGAGGCTCAGCTCATGCCCTCTCGTGGCCTCAACGGG
CCCAGCCCCTGCTGTGCGGCGCCTCTACAGGCCAGCCTCTACCTCACAGTGGGCTCTCCAGGCCACCTCTTT
CTCACCGTGGCCTCCTGGGGCAATGCTCCCCGCTCTCGGGAGCCTCTGCGGGCCCAGCTCCTGCCTCCCAGTGGC
CTCTGTAGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCAGGCCTAGCGTTTGCTGCTTTGCATCCTCTCCAGGCT
CTGGACTTCTCCAGTGGCCTCTCCAGGCCAGCTCTTCTCCCGGCGGCTCTGCAGGCCAGACTGTTGTCA
AGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGTGCCCTCTGCAGGCCAAGTCGTCCTCAAGTCGGCCTCCC
CAGGCCAGCTCCGGCCTCTCGGCGGCCGCTCCAGGTGCAAAAGTTCTCGAGTCAGCCTCTCCAGGCCAGCTC
CTCCTGCCTCCCAGCGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCCTCCCGGCTGCGTCTCTAGGCCGACTCCGG
CCTCCCAACAACCTCTTTGGACTCAGCTCCTGCCTCTCGAAGGCCTGCACGGGCCAGCCTCAGCCTCACAGCGG
ACTCTCCACGCCAGCTAGCTCTCGCCTCACTGCGGCCTCCCAGTCGAAAGCTCCTGCCTTTCGGCCGCTTTGG
CAGGCCAGCTCCTGCCTGCCAGTGGCCTCTTTAGGCCAGCTCATTCTCACAACGGCCTTTCAGGCCCGTT
TTCCCTTCCGGCAGCCTTTTGGCCTCTAATTTGTTTATCTTTTGTGTATAAATCCCAAAATATGGAATTTTGA
ATATTGCTACCAT

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FIGURE 2231

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSGFPASASLWTPQAKLPTFQQLLHTQ
LLPPSGLSRPSSCFTRAFAGPTFVSWQPSLARFLLVSQQPRQAQVLPHTGLSTSSSCLTLASPGPTPVPGRHLRA
QNLLKSDSLVPTAAFWWPMKAQNLLKLTSPGPAPASCOHLQAQPLPHGVFSRPTSSSWLGLQAQLLPHNSLFWPS
SCPAHGGQCRPKTSSSQTLQAHLLLPGGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPEAKFLLACQQPQQ
AQLLPHSGPFSPNS

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FIGURE 2232A

GGGAAGCGCGCCGCGCACCTCATGGTTCCGGGGACAGTTAGGGCGGCGGATGGAGGTCAGCGGTGGTGCTCGCTG
CGGTTTGAATCACTTGCTAGGAGTCTTGCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAGCGA
TGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCCTGG
GTAGCCCATAAAGCTCTGACTTCTCAGCCACCTCACCCATTTCCACCTCCCAGGTTTCTTGATGGAGCCGGTG
GAGAAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAG
GAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCT
CACTTGCTGTCTGAGAAGCCAGAAGATAAAGGCTTGCTCATACAGGATGCCCACTTTTCATCAACTTCTCTGTCTG
CTCAACAGTCAGATTGCCTCGGTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATC
CCCAAGGCCCTCCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCGGCTGGCGCATGCGGAAGCTCAAGTACAAGCAC
CTGGCCTTCTTGCCAGAGTCTGTGCCACCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTC
ACACACCTGGAAAGGCGTTGGACAGAAATTGAAGATTCCACACATTAGTGACCGTCATGATGAAGGTGGGACAC
CTCTCGGAGCCACTAATGAACCGCCTGGAAGACAAGCAGCTCTGAACAGAGCGCAGGACATCACCTGCCCCAC
CTGTGCAGCGTACTTCTGGCTTTTGC CGCTTGAACCTCCATCCAGACCAAGAGGATCAGTTCTTCAGCCTGGTA
CATGAGAAGCTGGGGTCAGAGCTGCCAGGCCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGTGGGCCCTGTGTGTG
CTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGCTCTCCACCTGAATTTACATCCAATTTCTAGGGGGCAAG
TCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTAC
TCGGGTCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAGCCCTTGACAGGAAGGTGACCCCTGCAA
AAGGAGCTGCAGGAGACGCTGAAGGGGCTGCTGGGGAGCGCCGACAAGGGCAGCCTCGAGGTGGCCACGCAGTAT
GGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGTGACGGCGAGTTTCTGCCCGTAAGGGACTTTGTGGCACCT
CACCTTGCCAGCCAACCTGGGAGCCAGTCACCACCTCCAGGGTCTAAGAGGCTAGCGTTCTTGCGGTGGGAGTTT
CCCAACTTCAACAGCCGAAGCAAGGACTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGGCTGCAGGC
TTCCTGATAGTGGACGTCCCATTTCTATGAGTGGCTGGAACCTCAAGTCTGAATGGCAGAAAGGCGCTACCTCAAG
GACAAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAGTCACTTGTGCCAGCAGCATGGACTGCGTGCCCTCTCC
GCCGGAGGTCTAGCTGTGGGCGGCCAAGAAGGGTCACCCTTGAGGACAAACCTCTGTGCAGGACCTTGCCAGAG
TGGGGAGGGTGGCCAGCCACTCTGAGGGACAGAACGTCCTCTTGTTGATAATAAACCTTTAATTTTGGTGTGGA
CCCCTGGGGCCTTCCAGGCTTGGTCACCCTCTGCACTGTGCACTTGTCTGTCTGCTTTGTTGAGCAGGGCGT
GGTTCTCCAGTCTGCCCTGTGCACTCCCCGCCACGCCAGCCCAAGAGGGCTGCTTTAGGGACAGACCTGGGT
GTTACCTGCCCTGTCTCTCCAGCTTCTTCCCTCCATGAGTGCTTATTCACATATGCCGGCTCTTGCGTAGGGGT
CTGTATCAGCCCCAGCAGGCAGGTGGAGTCTAGAAATCTGAACCTCCAGAGCAGAGGAGCTTCCAGGGAAGCT
GATTGGAGATTCAGTGCATGGCTGGGGGTTCTGATGGAGCTGTGGCTACTGAACCACAGCCATCCTGGGAGGCTT
TCTCCATCAGTTGTCTCACACTTAGCTGAGTGAAGGCACCCTGACAGCATGTGGTGACAGGTGATGTGAGGGC
TGGGTGAGCACTTGGGAGGCGCTGGCTCTGGGAGAGGAGAAGATCCCACTTGGCTGACACCACGGCACCAAGAGC
CAAACCTCCATCGTTGTCTTACCACCCTGACCAGAGCCTTGTGCTGTATCTAGGAACCTGGCTGCCCAAACAGGA
CCCTGGCAGCCTCCCTGCTGCTGCGGGGATTACCAGGTGCTGGGAGGCAACAAGCTTTCTACCTTCCAGCCTCTC
CTTAGAGACACCTATTGGCAGAACCTGACTAAATAGCAGTCAGGGAACCTGGGTGCTCCAGCCATACAGAACAG
AGAGTAGGACAGTGGGGTGGAGCTGAGATGGAGAGGCCACAGCCCTCAGCACTGTAGGCTCCCAACCCTAGGCT
GTTTCCCCAAAAAGAAAAGTCTAGTCACTGCTCTGATGCTTGGCCACTCACCAAGCATTGGGGTAGTTTGTGC
TGGCTTCACTGGGCACCATCAGGCACACCCAGCCTGTAGTTTTTGTATATTACCTAAGTCGGCCAGGTGTGG
TGGGATCAGCCTGTAATCCAGCACTTAGGGAGGCTGGGGCGGGCAATCGCCTGAGGCCAGGAATTCAAGACC
AACCTGGCCAAACATTGTGAACCTGTCTCTACTAAAAATATAAAAAATTAGTCGGGCATGATGACAGGCACCTGT
AATCCAGCTACTCAGGAGGCTGAGGCAGGTGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGTTAAGAT
TGTGCCACTGCACTCCAGCCTGGGTAACAGAGCAAGACTCTGTCTCAAAAAATATATATGTGTGTGTGTGTGT
GTATATATATGTACATGTGTATATAAGTATATATGTGTATATATATATATACAGTATATACACACACACC
CCTAAGTCATGATTTTGGAGCAATTGTAAGTGGTGTAGTGCTTAATTTTGGCATTACACATTGATTGTTAGCAT
ATAGAAATGGGATTGATTTTATGTGATCTTGCTAACTTTATGCATTTTAAAAATTCCTTTGGATTTCTATGT
AGATATTTATGTCCTGAAAACAGGAATGTATTTATCTTTCAAATCAATATGCTTTTTATTTTGTATTTATGAC
CACTTCATTAAAAATAAATTCACATGCCATACACTTACCCATTTAAAAATGTATAATTAGGCCAGGTGTGGTGGC
TCAGCTCTGTAATCCAGCAGTTTGGGAGGCCAAGGCCCTCAGATCTTGAGCCCAGGAGTTCAAGACCACCTGG

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FIGURE 2232B

GCAACAGGCAAAACCCTGTCTCTATTTTTTAAAATACAAGAATTAGCCGCAGTGGCACGCACCTGTCGTCCCAGC
AACCAGGAGGCTGAGGTAGGAGGATCACTTAAGCCTGGGAAGTCAAGCCTGCAGTGAACCATGATAGCACCCT
GCAGTCCAGCCTGGGCGACAGAGTGAGACCCCATCTCGAAAACAAAATGTATAATTCAGTGGTTTTTAGTCTCT
TTGCAGATACATGCAACCATCACCACAATTTGCACATTTTCTAAGCCTCATATACTGATGTGATATTTGGTGTT
TTGTGACTGGCTTCATTTACTTAGCATATTGTTTTCATGTTTCATTCATGTCGCATGTATGAGTATTCATTCCTT
TATTTGGCTGAATAATATTCCATTATAGTTTGTGCCACATTTGTTTATCCATTCATCCATTGATGGACATGTGG
ATTGTTTCCACCTTCTGGATAATATGAACTGATACAGTTTGGATATTTGTCCCCTCCAAATCTCATGAAATAGG
ATCACCAGTGTTGGAGAATGGGGCCTGTTAGGAAGTGTTGGATCATAGGAACATCTGTCATAAATGGCTTGGTG
CCATCCTTGTAATGAGTGAGTTCTTGCTCTATATTAGTTCACTTGAAAGCTGGTTGTTGGGAACTCCTGCCCTAT
CTGTTCTGCCCTCTCTCGTCATGTGACATGCCCTGCTCCTTGTTACCTTCTGTCATGAGTAAAAGCTTCCTAAGG
CCTTCCCAGGAGCCAAGCAGATGTCAGTACCATGCTTGACAGCCTGCAGAACTGTGAGCCAAATAAACTTCTTT
ATAAATT

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FIGURE 2233

MAAHLVKRCTCLLREAARQAPAMAPVGRLRLAWVAHKTLTSSATSPISHLPGSLMEPVEKERASTPYIEKQVDHL
IKKATRPEELLELLGGSHDLDSNQAAMVLIRLSHLLSEKPEDKGLLIQDAHFHQLLCLLNSQIASVWHGTL SKLL
GSLYALGIPKASKELQSVEQEVRRMRKLKYKHLAFLAESCATLSQEQHSQELLAELLTHLERRWTEIEDSHTLV
TVMMKVGHLSSEPLMNRLEDKHVLNRAQDITLPHLCSVLLAFARLNHFDPQEDQFFSLVHEKLGSELPGLEPALQV
DLVWALCVLQQAREAELOAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGPLLPASAVAPGPSAL
DRKVTPLQKELQETLKGLLSADKGSLEVATQYGWVLD AEVLLDSDGEFLPVRDFVAPHLAQPTGSQSPPPGSKR
LAFLRWEFPNFNSRSKDLLGRFVLARRHIVAAGFLIVDPFYEWLELKSEWQKGAYLKDKMRKAVAEELAK

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FIGURE 2234

GGCACGAGGCCCGGGTCGAGCATGTAGCGGCTGCTGGCGGCGGGGCTCCCGGGCGGGCCGGGCGGGCCGCGGGA
GCCGCACGCGGCGATATGGAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATTGTCTCGCCATTAAACGAGTA
TTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCCATGAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTG
GTGTTGTCAATTGCCTGAGCGCGTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTA
GGTCAGTTAACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCCTGCATTTCATAGACAATGCA
AAGAGAGCCCACCAGCTTCCGGGACACTTGACTCAGGAGCAGCATGCTGTGCTCAGCCTGTCTGCGTACAACGTC
AAGTGGCCTGGAGGGACGGGGAGGATATCATCTCAGGGTGCCCATCCATGACATCGCCGCCGTCTCCTATGTT
CGGGATGACGCTGCACACCTGGTGGTCCTGAAGACAGCCCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGT
GCGGAAAGTTCCAGAGGCCCTAGTGCAGGCTCCCTGTGCGAGAGTGCAAGTTGGGCCCTGGAGGCATGCTGCCTG
GTCATCTGGCTGCAGAGAGCAAGGTGCTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTTCCAGGTTGTT
TACACGGAGTCCACCATCGACTTTCTGGACAGAGCGATATTTGATGGGGCCTTACCCCGACCCACCACCTGTCC
CTGCACAGCGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGAAGCCAGCACTTCTGCTTC
CCTGAATCTGTGGATGTGGGTGGTGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCCAGCGCC
ACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTCTATCACAGGAGATCCAGCAGTTTGCAGCA
CTGCTGCACGAGTACCATAATGGGGCCTTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGC
CGCAAGTTCTGTGCTGCTTGGTCTGAGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCCTGGAG
ACCATTGGCGTGAAGGATGGCCGCGGCATCATCTGACAGCTTTGGCAGGCACCGCGGGGCCCTGAGCACCACA
TCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCCCTCAGAGGGGGATGAG
TGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCATGA

TGGACAGTGGATGGGGGGGCACCCACACCTTCCGCGCAGTCGTCATAGGCCTTCCCAGAAGGAGCTGCCCAGACC
TGCGTGTGAGCCCTTGGTGGTGGCCAGGGAGAGGCGCCCGGTGCGAGATGGCCCCGGGCGGGCCAGGTCTCTACT
GTGAAGGAGCAGGGAGCTGCCGAGGGACACGAGCCTCAGTGCGGGGTGAAGGCTCTTTGCCCTTGTCCACCAGGG
CTCAGCCAAGCCCTGCAGTGTGTCCCGCTCGGGGAGGGCCCGGCCGAGCGGGCAGGGAGAGCCAGTCTGTGCGG
CTGGGCCCTTGGACGGCTGTGAGTTTTGCACATGATGTTCCCTATTGTAACCTCTCAGAGACCTTAAAAAGAAGTTT
ACTGCAATGTGAATAATTTAAAAA

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FIGURE 2235

MEEEGKKGKKPGIVSPFKRVFLKGEKSRDKKAHEKVTERRLHTVVLSPERVEPDRLLSDYIEKEVKYLGQLTS
IPGYLNPSSRTEILHFIDNAKRAHQLPGHILTQEHDVLSLSAYNVKLAWRDGEDIILRVPIHDIAAVSYVRDDAA
HLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSES AVGPVEACCLVILAAESKVA AEELCCLLGQVFQVYTEST
IDFLDRAIFDGASTPTHLSLHSDDSSTKV DIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQ
DYMLTLRTLKSSQEIQQFAALLHEYRNGASIHEFCINLRQLYGDSRKFLLLGLRPFIP EKDSQHFENFLETIGVK
DGRGIITDSFGRHRRALSTTSSSTTNGNRATGSSDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

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FIGURE 2236

TGGGGTTCGAACCAGCAAGACAAGCGGGCATTGGCCACAGCAGCGCGAGGCGGGCACGGGGTATTGTCCGGCTCC
GGCGGCGGGCGGTTCGGTGCTGCGAGAGCGGCGGGCGGGCGGGTTCGGCAGCGGGAGGGCGCGGGCCGAGCGGA
GGCGGAGTCGGCGCCGAGAACAATGGCTGGAGGCAAAGCTGGAAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTA
TCTCGCTCACAGAGAGCTGGGCTACAGTTTCCTGTGGGCCGCATCCACAGACACTTGAAGACTCGCACCACAAGC
CATGGAAGGGTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAG
CTGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTTGCAGCTTGCAATCCGTGGT
GATGAAGAGTTGGATTCTCTTATCAAGGCTACCATAGCTGGGGGTGGTGTGATCCCTCACATCCACAAATCTCTG
ATTGGAAGAAGGGACAGCAGAAAAGCTGCTTAGAGGGATGCTTTAACCAACCCCTCTTCTCCCGTCATTGTACT
GTAAGTGGGACAGAAAGAAATAATGGGGATATGTGGAATTTTTAACAACAGTTAAATGGAAAAGCATAGACAATTA
CTGTAGACATGATAAAAGAAACATTTGTATGTTCTTAGACTCGAAGTTTGATAAAAGTACCTTTTCATGTGGTGA
CAGTTGTGTGTTGATTGGCTAGGTTTCTCCCGTGTGTTTTATACAAAATGGAATTGATAAACCATTTTTTACAA
AATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2237

MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRIHRHLKTRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSLIGKKGQQKTA

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FIGURE 2238

GTTTTGCAGACGCCACCGCCGAGGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCCTCGACATTG
CCGTCGACGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATT
TTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATCCAGGGTTTA
TGTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATG
AGAACTTCATCCTAAAGCATAACGGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGTTCCC
AGTTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTCGGCAAAGTGAAAGAAGGCA
TGAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACT
GTGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGATCATTTCCTTCTGTAGCTCAGGAGAGCA
CCCCCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCATGTTT
TCCTTGTTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAATT
GTC

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FIGURE 2239

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFGYKGSCFHRIIPGFMCQGGDFTRHNGTGG
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIVEAMERFGSRNG
KTSKKITIADCGQLE

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FIGURE 2240A

GCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCTAAGTTGAGGCCATTGACGGCT
TCCCAGACTGTTAAGACATTTTCACAAAACAGACCAGCAGCAGCTAGGACATTTCAACAGATTCCGGTGCTATTCT
GCACCTGTTGCTGCTGAGCCCTTTCTCAGTGGGACTAGTTTCAACTATGTGGAGGAGATGTACTGTGCTTGGCTG
GAAAACCCCAAAAGTGATACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCACCGGGCACT
GCCTACCAGAGTCCCCCTTCCCCTGAGCCGAGGCTCCCTGGCTGCTGTGGCCCATGCACAGTCCCTGGTAGAAGCA
CAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGGCAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGG
CACCATGTAGCACAGCTGGACCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATC
TCATCCACAGACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCCAACCACC
ACTTTCATCGGGGGACAGGAATCAGCACTTCCCTGCGGGGAGATCATCCGTCCGGCTGGAGATGGCCTACTGCCAG
CATATTGGGGTGGAGTTCATGTTTCATCAATGACCTGGAGCAGTGCCAGTGGATCCGGCAGAAGTTTGAGACCCCT
GGGATCATGCAGTTTCAAAATGAGGAGAAACGGACCCTGCTGGCCAGGCTTGTGCGGTCCACCAGGTTTGAGGAG
TTCCTACAGCGGAAGTGGTCCCTCTGAGAAGCGCTTTGGTCTAGAAGGCTGCGAGGTACTGATCCCTGCCCTCAAG
ACCATCATTGACAAGTCTAGTGAGAATGGCGTGGACTACGTGATCATGGGCATGCCACACAGAGGGCGGCTGAAC
GTGCTTGCAAATGTTCATCAGGAAGGAGCTGGAACAGATCTTCTGTCAATTGATTCAAAGCTGGAGGCAGCTGAT
GAGGGCTCCGGAGATGTGAAGTACCACCTGGGCATGTATCACCGCAGGATCAATCGTGTACCGACAGGAACATT
ACCTTGTCCTTGGTGGCCAACCCTTCCCACCTTGAGGCGCGTGACCCCGTGGTGTATGGGCAAGACCAAGCCGAA
CAGTTTTACTGTGGCGACACTGAAGGGAAAAAGGTCATGTCCATCCTGTTGCATGGGGATGCTGCATTGCTGGC
CAGGGCATTGTGTACGAGACCTTCCACCTCAGCGACCTGCCATCCTACACAACCTCATGGCACCGTGCACGTGGTC
GTCAACAACCAGATCGGCTTACCACCGACCCCTCGGATGGCCCGCTCCTCCCCCTACCCCACTGACGTGGCCGA
GTGGTGAATGCCCCCATTTTCCACGTGAACCTCAGATGACCCCGAGGCTGTCATGTACGTGTGCAAAGTGGCGGCC
GAGTGGAGGAGCACCTTCCACAAGGACGTGGTTGTGATTTGGTGTGTTACCGGCGCAACGGCCACAACGAGATG
GATGAGCCCATGTTACGCAGCCGCTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTGTTACAGAAGTACGCT
GAGCTGCTGGTGTGCGAGGGTGTGGTCAACCAGCCTGAGTATGAGGAGGAAATTTCCAAGTATGATAAGATCTGT
GAGGAAGCTTTTGCCAGATCTAAAGATGAGAAGATCTTGACATTAAGCACTGGCTGGACTCTCCCTGGCCTGGC
TTCTTACCCTGGACGGGCAGCCAGGAGCATGTCTGCCCCCTCCACGGGTCTGACGGAGGATATTCTGACACAC
ATCGGGAATGTGGCTAGTTCTGTGCTGTGGAACCTTTACTATTTCATGGAGGGCTGAGCCGGATCTTGAAGACT
CGTGGGGAAATGGTGAAGAACCGGACTGTGGACTGGGCTCTAGCGGAGTACATGGCGTTTGGCTCGCTCCTGAAG
GAGGGCATCCACATTCCGGCTGAGCGGCCAGGACGTGGAGCGGGGCACATTACGCCACCGCCACCATGTGCTCCAT
GACCAGAATGTGGACAAGAGAACCTGCATCCCCATGAACCATCTCTGGCCCAATCAGGCCCCCTATACTGTGTGC
AACAGCTCACTGTCTGAGTACGGCGTGTGGGCTTTGAGCTGGGCTTCGCCATGGCCAGTCTTAATGCCCTGGTC
CTCTGGGAAGCCCAATTTGGTGACTTCCACAACACGGCCAGTGTATCATCGACCACTTCACTGCCCCGGGACAA
GCCAAGTGGGTGCGGCAGAATGGCATCGTGTGCTGCTGCCCCATGGCATGGAGGGCATGGGTCCAGAACATTCC
TCCGCCCCGCCAGAGCGGTTCTTGAGATGTGCAACGATGACCCAGATGTCTGCCAGACCTTAAAGAAGCCAAC
TTCGACATCAATCAGCTATATGACTGCAATTGGGTTGTTGTCAACTGCTCCACTCCTGGCAACTTCTTCCACGTG
CTACGACGCCAGATCCTGCTGCCATTCCGGAAGCCGTTAATTATCTTACCCCCAAATCCCTGTTGCGCCACCCC
GAGGCCAGATCCAGCTTTGATGAGATGCTTCCAGGAACCCACTTCCAGCGGGTGATCCAGAGATGGCCCTGCA
GCTCAGAACCCAGAAAAATGTCAAAAGGCTTCTCTTCTGCAACCGCAAAGTGTATTATGACCTCACCCGGGAGCGC
AAAGCACGCGACATGGTGGGGCAGGTGGCCATCACAAGGATTGAGCAGCTGTGCGCATTTCCCTTTGACCTCCTG
CTGAAGGAGGTGCAGAAGTACCCCAATGCTGAGCTGGCCTGGTGCCAGGAGGAGCACAAGAACCAAGGCTACTAT
GACTACGTGAAGCCAAGACTTCGGACCACCATCAGCCGCGCCAAGCCCGTCTGGTATGCCGGCCGGGACCCAGCG
GCTGCTCCAGCCACCGCAACAAGAAGACCCACCTGACGGAGCTGCAGCGCCTCCTGGACACGGCCTTCGACCTG
GACGTCTTCAAGAACTTCTCGTAGATGCTGCCTAGGGTTGCTTGGGCCACTGCCCTCTCCACACCCATGACTGCC
CCTTGCTTCTCAACTAAAGAATAGTGCCTCAGCGCTGCCACACCCACCGCCCTCCTCGCTGTGCCACACCCCTC
CCTTGCTGCTCTCACTAGGAGTTAGGCTGTGCTCCCCCTCCAGTGCTTGGCTGCCCCACAGGCCACACGCTGCCAGG
CTCTGCTGACTTCTGAGCAGTTTTTCCAGGAGCGCGGGGGAGCAGGAGGAGGAAAGGTAGCCCCCAGGGATGTC
CTTGGGGAGGGGTACGCTTGCCCAACAATCCTCCCCACCACTCTCACCCACTAGGATAGGAAGTGGGCTTGTGT
GCTGGCTTCCGCTGTACCCAGCAAGGCACAGGCTCCTGTATTTGAGACTAGGATAGCTTCTTGTGAGCCTGAG
CCTTAGAATCTGTAGAGGAGCCTGGAGTGGATCTAGCCATGGCTGGCAGAGGTTTCTAGGGTGGGCCCCAGCCG

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FIGURE 2240B

TGGCGTGAAGTGAAGATGACCCGGGGCAGCTGGCAGGAGAGAGCCTTGGCCTGACCTGGCACAGAAAGGGCAGCT
TCAGTCTCTGCAGTGTCCATTATCTGCTGTTCCCTTCGAGGGTTCCAGGCTGTGTGTGGGGCCCAAGCATGCCCA
CCCACCCCTCCTGGGGCCAGGCAGCACCTGGAGCCCACAGAGTCTGTGTGTAGCCAGGAAGCCCCGCTCAGGTAG
CCACCACCGGGGCACTGGCTGCTCTGTCTTGGTCCTGTTAACCCCTCCACCTCCTCTCTTGGACTCCCTCCCCACC
CCAACCACTCTTTCTTTCTCTTTAACCCAATGGAGACTTTCTGATGCATCGTTTCTTTGCTGTGCCAAAGCAG
GTCAGAAGAGGGAGAGGAGGGGCTGGGGGTGAGGGGCCAGGCCATGGCCAAGGGGCCAGCTGCCCCTCATTTATC
ACTCTGACCTTCACAGGGACAGATCTGATTTATTTATTTTGGTT

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FIGURE 2241

MFHLRTCAAKLRPLTASQTVKTF SQNRPA AARTFQQIRCYSAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKS
WDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSLVEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPL
GILDADLDSSVPADIISSTDKLGFYGLDESDLDKVFHLPTTTFIGGQESALPLREIIRRLEMAYCQHIGVEFMFI
NDLEQCQWIRQKFETPGIMQFTNEEKRTLLARLVRSTRFEFLQRKWSSEKRFGLGCEVLIPALKTIIDKSSSEN
GVDYVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTDNRNITLSLVANPS
HLEAADPVVMGKTKAEQFYCGDTEGKKVMSILLHGDAAFAGQGIVYETFHLSDLPSTTHGTVHVNNQIGFTT
DPRMARSSPYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGHNEMDEPMFTQPL
MYKQIRKQKPV LQKYAELLVSQGVVNQPEYEEEISKYDKICEEAFARSKDEKILHIKHWLDSFPWGFFTLDGQPR
SMSCPSTGLTEDILTHIGNVASSVPVENFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSG
QDVERGTFSHRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGV LGFELGFAMASPNALVLWEAQFGDF
HNTAQCIIDQFICPGQAKWVRQNGIVLLLPHGMEGMGPEHSSARPERFLQMCNDDPDVLPDLKEANFDINQLYDC
NWVVVNCSTPGNFFHVLRRQILLPFRKPLIIFTPKSLLRHPEARSSFDEMLPGTHFORVIPEDGPAAQNPENVKR
LLFCTGKVYYDLTRERKARDMVGQVAITRIEQLSPFPFDLLLKEVQKYPNAELAWCQEEHKNQGYDYVKPRLRT
TISRAKPVWYAGRDPAAAPATGNKKTHLTELRLLDTAFDLDVFKNFS

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FIGURE 2242

GCTGCTCCCGCTCGCGTCGGTGGCGTTTTTTCCTGCAGCGCGTGCGTGCTGCGCTACTGAGCAGCGCCATGGGAGGA
CTCTGAAGCACTGGGCTTCGAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTACCGATCTGGGCTGGTC
GCGACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCTCCTGGCTCGGGCCCGCAC
GGGCTCCGGGAAGACGGCCGCTTATGCTATTCCGATGCTGCAGCTGTTGCTCCATAGGAAGGCGACAGGTCGGGT
GGTAGAACAGGCAGTGAGAGGCCTTGTTCTTGTTCTTACCAAGGAGCTGGCACGGCAAGCACAGTCCATGATTCA
GCAGCTGGCTACCTACTGTGCTCGGGATGTCCGAGTGGCCAATGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAG
AGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGGACCCCATCTCGCATATTAAGCCACTTGACGAAGACAG
CCTGAAACTTCGTGACTCCCTGGAGCTTTTGGTGGTGGATGAAGCTGACCTTCTTTTTTTCCTTTGGCTTTGAAGA
AGAGCTCAAGAGTCTCCTCTGTCACTTGCCCCGGATTTACCAGGCTTTTCTCATGTGCTACTTTTTAACGAGGA
CGTACAAGCACTCAAGGAGCTGATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGGCC
AGACCAGTTACAGCAGTTTCAGGTGGTCTGTGAGACTGAGGAAGACAAATTCCTCCTGCTGTATGCCCTGCTCAA
GCTGTCAATTGATTCCGGGGCAAGTCTCTGCTCTTTGTCAACACTCTAGAACGGAGTTACCGGCTACGCCCTGTCTT
GGAACAGTTTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTCACA
GTTCAACCAAGGCTTCTACGACTGTGTCTATAGCAACTGATGCTGAAGTCCTGGGGGCCCCAGTCAAGGGCAAGCG
TCGGGGCCGAGGGCCCCAAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCCGGGGCATAGACTTCCACCA
TGTGTCTGCTGTGCTCAACTTTGATCTTCCCCCAACCCCTGAGGCCTACATCCATCGAGCTGGCAGGACAGCACG
CGCTAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCCACGGAGCAGTTCCACTTAGGCAAGATTGAGGAGCT
TCTCAGTGGAGAGAACAGGGGCCCCATTCTGCTCCCTACCAAGTTCCGGATGGAGGAGATCGAGGGCTTCCGCTA
TCGCTGCAGGGATGCCATGCGCTCAGTGACTAAGCAGGCCATTCCGGGAGGCAAGATTGAAGGAGATCAAGGAAGA
GCTTCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAACCCCTAGGGACCTCCAGCTGCTGCGGCATGACCT
ACCTTTTGACCCCGCAGTGGTGAAGCCCCACCTGGGCCATGTTTCTGACTACCTGGTTCTTCTGCTCTCCGTGG
CCTGGTACGCCCTCACAAGAAGCGGAAGAAGCTGTCTTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAA
CCCACTGCGCAGCTTCAAGCACAAAGGAAAGAAATTACAGCCACAGCCAAGCCCTCCTAGAGTTGTTGGGCCTC
TCTGGAGCTGAGCACATTGTGGAGCACAGGCTTACACCTTTCGTGGACAGGCGAGGCTCTGGTGCTTACTGCACA
GCCTGAACAGACAGTTCTGGGGCCGGCAGTGCTGGSCCTTTAGCTCCTTGGCACTTCCAAGCTGGCATCTTGCC
CCTTGACAACAGAATAAAAATTTAGCTGCCCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 2243

MEDSEALGFEHMGDPRLLOAVTDLGWSRPTLIQEKAIPLEALEGKDLLARARTGSGKTAAYAIPMLQLLLHRKAT
GPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAEDSVSQRAVLMEKPDVVVGTPSRILSHLQ
QDSLKLKRLSLELLVVDEADLLFSFGFEEELKSLLCHLPRIYQAFMSATFNEDVQALKELILHNPVTLKLQESQL
PGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSRCHI
ISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDPEAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGR
TARANNPGIVLTFVLPTAQFHLGKIEELLSGENRGPILLPYQFRMEEIEGFRYRCRDAMRSVTKQAIAREARLKEI
KEELLHSEKLKTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVPDYLVPPALRGLVRPHKKRKKLSSSCRKAKRAK
SQNPLRSFKHKGKKFRPTAKPS

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FIGURE 2244

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTCCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCAGCACCAGTCAGACCAATATGTCAAAATTAAGCGTA
ACTGGCGGAAACCCAGAGGCACTGACAACAGGGTTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG
GTTATGGGAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACATCAAGG
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA
AAGCCATCGTGGAACAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGCGAAGAAA
ATGAGTAGACAGCTCGTGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGC

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FIGURE 2245

GCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTGAGGGCGCGGAGCCATGAAGCTGTACAGC
CTCAGCGTCCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGCCGCATACGATGTGTCTTCCTTCAGCTTT
TTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACTGATTGTGGAGCGCTCATCGAAAGGCACT
AGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCGGAATGATAGTCTTGCAGGTGTGGTCATT
GCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAAGGTACTAGATGAATTCTCCAAGCAAGTC
GACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCCAGCCCTGGATGGTCACCTCAGTAGATAC
CAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAACTAGATGAGACCAAAATCATTCTGCACAAC
ACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGTGTCCAAATCCGAGGTGCTGGGAACACAG
TCTAAAGCCTTCTATAAACTGCCCCGAAACAAAACATCATGCTGTGCCATCATGTGATGCAGCCTGCCAGAGGCC
CAATGCTGGAATGGCACCATCATTCACATCAGAACTGCAGCCCCCTGGAAAAGAAGAGACA

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FIGURE 2246

CGGGATGCGGCGCGCCGCGCGTTGAACCTCCTTGGCCTGGGCGAAGCTGTGTGGACCAAGCAAGTCAGGAGTGTG
GCCATGTTTTCTGAGCAGGCTGCCCAGAGGGCCACACTCTACTGTCCCCACCATCAGCCAACAATGCCACCTTT
GCCCCGGGTGCCAGTGGCAACCTACACCAACTCCTCACAACCTTCCGGCTAGGAGAGCGCAGCTTTAGCCGGCAG
TATGCCACATTTATGCCACCCGCTCATCCAAATGAGACCTTCTGGAGAACCAGGCCCCAGCAGCACTGGGGC
AGTGGAGTGGGAGTGAAGAAGCTGTGTGAACCTGCAGCCTGAGGAGAAGTGCTGTGTGGTGGGCACTCTGTTCAAG
GCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTCAGCGAGGAGCACAACCTGCTCCCCCAGCCTCCTCGGAGT
AAATACATACCCCAGATGACGAGCTGGTCTTGGGAAGATGAACCTGCAGCGTATCAAATAAAAGGCACCATTGAC
GTGTCAAAGCTGGTTACGGGGACTGTCTGGCTGTGTTTGGCTCCGTGAGAGACGACGGGAAGTTTCTGGTGGAG
GACTATTGCTTTGCTGACCTTGCTCCCCAGAAGCCCGCACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTG
TCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAGAGCCTGCTGGGCACCCAGCTGCTGGTGGATGTGGTGACGGGG
CAGCTTGGGGACGAAGGGGAGCAGTGCAGCGCCGCCACGTCTCCCGGGTTATCCTCGCTGGCAACCTCCTCAGC
CACAGCACCCAGAGCAGGGATTCTATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAG
GCTGTAAAGATGCTGGATGAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTT
GATCCCACCAATTACACGCTCCCCAGCAGCCCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACG
CTCCAGCTGGTCACCAACCCCTACCAGGCCACCATTGATGGAGTCAGATTTTGGGGACATCAGGACAGAACGTG
AGTGACATTTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCCTGCGGGTCCGTACATC
AGCCCCACAGCCCCGGACACTCTAGGTTGTTACCCCTTCTACAAAACCTGACCCGTTTCATCTTCCAGAGTGCCCG
CATGTCTACTTTTGTGGCAACACCCCCAGCTTTGGCTCCAAAATCATCCGAGGTCCTGAGGACCAGACAGTGCTG
TTGGTGACTGTCCCTGACTTCAGTGCCACGCAGACCGCCTGCCTTGTGAACCTGCGCAGCCTGGCCTGCCAGCCC
ATCAGCTTCTCGGGCTTCGGGGCAGAGGACGATGACCTGGGAGGCCTGGGGCTGGGCCCCTGACTCAAAAAAGTG
GTTTTGACCAGAGAGGCCAGATGGAGGCTGTTTCATTCCTGCAGTGTGGCATTGTAAATAAAGCCTGGCACTT
GCTGATGCG

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FIGURE 2247

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATR LIQMRPFLENRAQQHWGS
GVGVKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEHNLLQPPRSKYIHPDDELVLEDELQRIKLKGTIDV
SKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGLGGLGGGGESLLGTQLLVDVVTGQ
LGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFD
PTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHIS
PTAPDTLGCYPFYKTDFFIFPECPhVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLNVNLRSLACQPI
SFSGFGAEDDDLGGGLGLGP

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FIGURE 2248A

TCCCTCGCTACCCCATCCTCTCTCCCGCCCTTCTTGATTCCCTCACCCGTCTCGATCCCCTCTCCGCCCTTT
CCCAGAGACCCAGAGCCCCTGACCCCCCGCGCCCTCCCGGAGCCCCCGCGCGTGCCGCGGCCATGGCGGCCGT
GCGCGGGGCGCCCTGCTCAGCTGCCTCCTGGCGTTGTGTCGAGCTGAGGCGCCCGCAGACGGTGCT
GACCGACGACGAGATCGAGGAGTTCTCGAGGGCTTCTGTGAGCTAGAACCTGAGCCCCGGGAGGACGACGT
GGAGGCCCCGCGCCTCCCGAGCCACCCCGCGGGTCCGAAAAGCCAGGCGGGGGCAAGCCAGGGAAGCGGCC
AGGGACGGCCGAGAAAGTGCCTCCGAAAAGACCAAGACAAAGGAAGAAAGGCAAGAAAGACAAAGCCCCAA
GGTGCCCAAGGAGTCTTGAGGGGTCCCCAGGCCGCCAAGAAAGGGAAGGAGAAGCCACCCAAGGCCACCAA
GAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAGAAGCCCCGTGAGGAAGAGGCCCCCATTTCTGGCTCCCTCAGAAACCT
AGAGAAGCCACCCAAGGCCACCAAGAAGCCCCGTGAGGAAGAGGCCCCCATTTCTGGCTCCCTCAGAAACCT
GGAGTGGCCACTGCCCCACCCCCAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGGCGCCCTCTCAAA
TAACTGGCAGAATCCAGGAGAGGAGACCCATGTGAGGACGAGGAGCACCAGCCTGAGCCGGAGGAGGAGACCGA
GCAACCCACACTGGACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTGCGCGCCAGAA
GCAACCCAGGCCACCCCCAAGCAGAAGGAGGAGGCCGAGCGGGTCTGGCCAGAGCCCCCTGAGGAGAAGGCCCC
GGCCCCAGCCCCGGAGGAGAGGATTGAGCCTCTGTGAAGCCTCTGCTGCCCCGCTGCCCCCTGACTATGGTGA
TGGTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCCTCCTCCGCCCCAGAAGCCCGATGCTGA
GCGCCAGACAGACGAAGAGAAGGAGGAGCTGAAGAAACCCAAAAAGGAGGACAGCAGCCCCAAGGAGGAGACCGA
CAAGTGGGCACTGGAGAAGGGCAAGGACCACAAAGAGCCCCGAAAGGGCGAGGAGTTGGAGGAGGAGTGGACGCC
TACGGAGAAAGTCAAGTGTCCCCCATTTGGGATGGAGTACACCGTATTGAGGACAACCAGATCCGAGCCTCCTC
CATGCTGCGCCACGGCCTGGGGGCACAGCGCGGCCGGCTCAACATGCAGACCGGTGCCACTGAGGACGACTACTA
TGATGGTGCCTGGTGTGCCGAGGACGATGCCAGGACCCAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTT
CACAGGCGTCATACCCAGGGCAGAGACTCCAGCATCCATGACGATTTTGTGACCACCTTCTTCGTGGGCTTCAG
CAATGACAGCCAGACATGGGTGATGTACACCAACGGCTATGAGGAAATGACCTTTCATGGGAACGTGGACAAGGA
CACACCCGTGCTGAGTGAGCTCCAGAGCCGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGG
CAGCCTGTGCATGCGCCTGGAGGTGCTGGGGTGTCTGTGGCCCCGTCTACAGCTACTACGCACAGAATGAGGT
GGTGGCCACCGATGACCTGGATTTCGGGCACCACAGCTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGA
GGAGTGGCCACCATACCCGCACTTACAGCCTGGGCAAGAGCTCACGAGGCCTCAAGATCTATGCCATGGAGAT
CTCAGACAACCTGGGGAGCATGAAGTGGGGAGCCGAGTTCGGCTACACTGCTGGGATCCATGGCAACGAGGT
GCTGGGCCGAGAGCTGTTGCTGCTGCTCATGCAGTACCTGTGCCGAGAGTACCGCATGGGAACCCACGTGTGCG
CAGCCTGGTGACGACACACGCATCCACCTGGTGCCCTCACTGAACCTGATGGCTACGAGGTGGCAGCGCAGAT
GGGCTCAGAGTTTGGGAACGGGCGCTGGGACTGTGGACTGAGGAGGGCTTTGACATCTTTGAAGATTTCCCGGA
TCTCAACTCTGTGCTCTGGGGAGCTGAGGAGAGGAAATGGGTCCCTACCGGTCCCCAACATAACTTGCCCAT
CCCTGAACGCTACCTTTCGCCAGATGCCACGGTATCCACGGAGGTCCGGGCCATCATTGCCTGGATGGAGAAGAA
CCCCTTCGTGCTGGGAGCAAATCTGAACGGCGGCGAGCGGCTAGTATCCTACCCCTACGATATGGCCCGCAGCC
TACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCGGGGGAGGATGAGGACGAGGTCTCCGAGGCCCA
GGAGACTCCAGACCAGCCATCTTCGGTGGCTTGCCATCTCCTTCGCCTCCGCACACCTCACCTTGACCGAGCC
CTACCGCGGAGGCTGCCAAGCCCAGGACTACACCGCGGCGCATGGGCGATCGTCAACGGGGCCAAGTGGAAACCCCG
GACCGGACTATCAATGACTTCAGTTACCTGCATACCAACTGCCTGGAGCTCTCCTTCTACCTGGGCTGTGACAA
GTTCCCTCATGAGAGTGAGCTGCCCCGCGAGTGGGAGAACAAAGGAGGCGCTGCTACCTTCATGGAGCAGGT
GCACCGCGGCATTAAGGGGGTGGTGACGGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTCTGTGAGTGG
CATTATCACGGCGTGAAGACAGCCAGTGGTGGTGATTACTGGCGAATCTTGAACCCGGGTGAGTACCGCGTGAC
AGCCCACGCGGAGGGCTACACCCGAGCGCCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGCAA
CTTCATCTTGCTCGCTCCAATGGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCGGCCATCCCCACA
CATAGACCCATCGCGCCCTATGACCCCCAACAGCGACGCTGCAGCAGCGACGCTACAACACCGCCTGCGGCT
TCGGGCACAGATGCGGCTGCGGCGCCTCAACGCCACCACCCTAGGCCCCACACTGTGCTTCCACGCTGCC
CCCTGCCCCCTGCCACCACCTGAGCACTACCATAGAGCCCTGGGGCCTCATACCGCCAACCACCGCTGGCTGGGA
GGAGTCGGAGACTGAGACCTACACAGAGGTGGTGACAGAGTTTGGGACCGAGGTGGAGCCCGAGTTTGGGACCAA
GGTGGAGCCCCGAGTTTGAACCCAGTTGGAGCCTGAGTTTGAACCCAGCTGGAACCCGAGTTTGAAGAGGA
GGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCCCCTTCACAACAGTAGAGACCTACACAGTGAA

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FIGURE 2248B

CTTTGGGGACTTCTGAGATCAGCGTCCTACCAAGACCCAGCCCAACTCAAGCTACAGCAGCAGCACTTCCCAAG
CCTGCTGACCACAGTCACATCACCATCAGCACATGGAAGGCCCTGGTATGGACACTGAAAGGAAGGGCTGGTC
CTGCCCCCTTTGAGGGGGTGAAACATGACTGGGACCTAAGAGCCAGAGGCTGTGTAGAGGCTCCTGCTCCACCTG
CCAGTCTCGTAAGAGATGGGGTTGCTGCAGTGTTGGAGTAGGGGCAGAGGGAGGGAGCCAAGGTCACTCCAATAA
AACAAAGCTCATGGC

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FIGURE 2249

GTTTCCCTCTGCGTTGCTCCGCGCTGCTGGAGGCTGTCGTCCCAATGCTCCCCAAACGGCGGCGAGCGCGGGTC
GGGTCCCTTAGCGGCGATGCCGCTTCCTCCACGCCGCCCTCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTC
GAGCCTCGCATGGGTGCGAGCCGCCGGGCTTCCTCACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCTTGAC
GCCTGCAGCTCCGAAGCGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGC
AGGATGGCAGCTGCTCCCCGGGTTGCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGA
GCTGGGCAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCCCTCTGAGCCCA
GCATGGATGCCTGCCTATGCCTGCCAGCGCCCTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTG
GAGATACTGGCCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTG
CTCAAGGCCCTTCCCAGCCCTGTCACAACCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCCGGCGCTCAGAGAGGTACCA
ACCATGAAGCTCTTCACCCAGATCTTCGGGGTCCGTTGTGAAGACTGCTGACCGGTGGTACCGGGAAGGACTGCGA
ACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAACAGCAGAAAGCGGGGCTCCAGCACCACCAGGAC
CTGAGCACCAGTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTG
CCTGGGGCCACCGTCACGCTGACCGGCGGCTTCCGAGGGGGAAGTTGCAGGGCCATGACGTGGACTTCTCTATC
ACCCACCCCAAGGAGGGTACAGAGGCGGGGCTGCTGCCTAGAGTGTGTGCCGCTGCAGGACCAGGGCCTCATC
CTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCTACCCGCTGGCCCAACAGAGCCACATGGACGCTTTT
GAGAGAAGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGTGCTGTGGGGGATCCACGAGGCCCTGCCCA
TCCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCCGTGAGCCAGTTCCCTTTCGCCCTGCTCGGTTGGACT
GGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGG
CTGTTTGACCCGGAGCAGAAGACATTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGACACCTGGGCCTTGAG
TACCTTCTCCAGAGCAGAGAAACGCCTGAGCCTGCCTGTGTCCCCCACTTCCACTCAGGAAATTGGGCTGCCCC
CAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTGCCCCCTGACCCCCACCTTACCCCTCCCCGCCAAGGCC
TGGCTCTTCCGGAGGTCAATTGTGCTGCAGGATCAGTTGAGCCCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGT
GGGAGCCCTCAGTGCCAGCCTCATCACTGTGTGACCTGGGTCTGCTCTTAGCCTCCCCATGGCTCACGTTCCCTG
CCCTGGATGGGATGTGAGTGGGGCCACATCGTGGAGCTGTGGTGGGGCCTGCAGTCATGAATGGCAAGTGGTCC
CTGATGTGAGTGTCTCATTAGTTGCACTGCAGTTAACTGTGGCTCCTGCAGGGCACCTGCCAGAATGCCAG
AAGAGAACCATGCATACCTGCACTGCATTTGAGAGCCATGAGCTGGAGGCTGTGGTTCTGTCAGCAAGGAGCCT
ACTGTCTGGTGTGCTGTAGGCATCTGGAGAGGGAGAGGGCCTGGGTAGGAGCTGGGAGGAAGATAATTTTCAACT
ATGGGGCTTCACTACTGCAGCGCCCCGAGCCAGGCTCTGTGCTTCTGCCTTTAAGGCCTGTTCTCAGCACAATGT
CTCAAAAATAGGTATATCTGCCACTCCCGTTCGAGAGCCCTTTAATGGTTCCAAACCCTAAGTCCACACATAG
CCCCTGGCTCTGGCATCTCTCCAGCCCCACTGGCCCCGAGCTGCTTGACTCACCGGCTTCTATTGATGCACCC
AGGCCCCCTTGTGGCCAACTCCCTCCCTTCTCACTGAGGCAGAAGCACTGAGGTGGGCTGGACATGGGTGCCCT
CCAGTCCCTCATATCCCCAGGCACACTCTGGCCTCAGGTTTGGCCTGGCCATGTCTATCTACCTGGAGTGGGCC
CTCCCTTCTTCAGGCCTTGAATCAAAAGCCACTTTGTAGGCGAGGATTCCCAGACCACTCATCACATTAATA
AATATTTTGAACATGCAGT

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FIGURE 2250

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLVEPRMGRSRRFLTGLARSKGFRVLDACSSEATHVMEETS
AEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQVPVVECRHRLEVAGPRKGPLSPAWMPAYACQRPTPLT
HHNTGLSEALEILAEAGFEGSEGRLLTFCRAASVLKALPSPVTILSQLQGLPHFGEHSSRVVQELLEHGVCCEV
ERVRRSERYQTMKLTQIFGVGVKTADRWYREGLRTLDDLREQPKLTQQQKAGLQHHQDLSTPVLRSDDALQQ
VVEEAVGQALPGATVTLTGGRGKLQGHVDVFLITHPKEGQEAGLLPRVMCRLQDQGLILYHQHQHSCCESPTR
LAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAPVSQFPFALLGWTGSKLQRELRRFSRK
EKGLWLNSHGLFDPEQKTFQAASEEDIFRHLGLEYLPEQRNA

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FIGURE 2251

GGCACGAGGGCGGAGACTGCGGGGCGGGCCATGGCGGCGAACCTGAGCCGGAACGGGGCCAGCGCTGCAAGAGGCC
TACGTGCGGGTGGTCACCGAGAAGTCCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATC
CGCGTGGCTGGCACAGGGGAGGGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCC
TTCTGCAGAGTGAAGGACCCCAACTCTGGACTGCCCAAATTTGTCTCATCACTGGACAGGCGAGGGCGTGAAC
GATGTGCGGAAGGGAGCCTGTGCCAGCCACGTACGACCATGGCCAGCTTCCTGAAGGGGGCCATGTGACCATC
AACGCACGGGCGGAGGAGGTGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAACTAC
AGCTTTTACAAGGAGAGTGGCGCTTCCAGGACGTGGGACCCAGGCCCCAGTGGGCTCTGTGTACCAGAAGACC
AATGCCGTGTCTGAGATTAAAAGGGTTGGTAAAGACAGCTTCTGGGCCAAAGCAGAGAAGGAGGAGGAGAACCGT
CGGCTGGAGGAAAAGCGGCGGGCCGAGGAGGCACAGCGGCAGCTGGAGCAGGAGCGCCGGGAGCGTGAGCTGCGT
GAGGCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCCAGAGCAGGACGTGGGAGCAG
CAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAG
GAGAGGGCCATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCCCTTCCTGCAGAAGCAG
CTCACCCAACAGAGACCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCCAGGGCAGATCTCCCTGCT
GAGGAGCCGGCGCCAGCACTCCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAG
CAGGAGACCTTCTACGAGCAGCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATT
CAGGGCCAGGGGCTCAGTGGGCAAGGGCTCTGTGCCCGTGCCCTGTACGACTACCAGGCAGCCGACGACACAGAG
ATCTCCTTTGACCCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCG
GATGGCCATTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAGTGGGCTGAGGGCACATCTTGCCCTTC
CCCTCTCAGACATGGCTTCCCTTATTGCTGGAAGAGGAGGCTGGGAGTTGACATTGAGCACTCTTCCAGGAATAG
GACCCCAAGTGAAGATGAGGCCTCAGGGCTCCCTCCGGCTTGGCAGACTCAGCCTGTCACCCCAAATGCAGCAAT
GGCCTGGTGATTCCACACATCCTTCCTGCATCCCCGACCCTCCAGACAGCTTGGCTCTTGCCCTGACAGGA
TACTGAGCCAAGCCCTGCCTGTGGCCAAGCCCTGAGTGGCCACTGCCAAGCTGCGGGGAAGGGTCTGAGCAGGG
GCATCTGGGAGGCTCTGGCTGCCTTCTGCATTTATTTGCCTTTTTTCTTTTCTTCTTCTAAGGGGTGGTGG
CCACCACTGTTTAGAATGACCCTTGGGAACAGTGAACGTAGAGAATTGTTTTAGCAGAGTTTGTGACCAAAGTC
AGAGTGGATCATGGTGGTTTGGCAGCAGGGAATTTGTCTTGTGGAGCCTGCTCTGTGCTCCCACTCCATTTCT
CTGTCCCTCTGCCTGGGCTATGGGAAGTGGGGATGCAGATGGCCAAGCTCCACCCCTGGGTATTCAAAAACGGCA
GACACAACATGTTCTCCACGCGGCTCACTCGATGCCTGCAGGCCCCAGTGTGTGCCTCACTGATTCTGACTTC
AGGAAAAGTAACACAGAGTGGCCTTGGCCTGTTGTCTTCCCCTATTTTCTGTCCAGCTCATCCGTGTCTCTGAA
GAACAAATATGCTTTTGGACCACGAAA

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FIGURE 2252

MAANLSRNGPALQEAYVRVVEKSPDWDALFTYEGNSNDIRVAGTGEGGLEEMVEELNSGKVMYAFCRVKDPNSG
LPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHVTINARAEEDVEPECIMEKVAKASGANYSFHKESGRFQ
DVGPQAPVGSVYQKTNAVSEIKRVGKDSFWAKAEKEEENRRLEEKRAEEAQRQLEQERRERELREAAARREORYQ
EQGGEASPOSRTWEQQQEVVSRNRNEQESAVHPREIFKQKERAMSTTSISSPQPGKLRSFPLQKQLTQPETHFGR
EPAAAI SRPRADLP AE EPAPSTPPCLVQAE EEA VYEEPP EQET FYEQPPLVQQQGAGSEHIDHHIQGQGLSGQGL
CARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHFGMFPANYVELIE

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FIGURE 2253

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGCGGGTCCGTGACCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGCGGC
TCCTCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG
CCCCAGGCCCGGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTTCATGAGAAAAGAAGAAAAGGCCAAGATTGTCGGATGGAATAATTTCATGAGATTGCTGTA
CTTGAAGTACGACAAGACAATCCTTGGGTCAATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTACACACTCGTGATGTAGTTTCATCTTGAT
TTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTTCTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTAAGAGCCTTCTTTCAGGATGGAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC
AAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTGAGCAATATTTCCCTTTAGAAGTTCAAGATTTCTACATTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAAGTATCACTTACACAAACAAAAATAACTTTGTCAAAT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGGCAACCAGGAGATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAAATCCAAGTAAAAGTGCCAAACTACACTTCTGTAAATCTCTTGCA
TATTCATATGTTATCTATATCTGCATAATGTTTGTAAATGTCTACTAAAATTGCTACTTTTTCACTTTGGATT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTTGGTTTCTGTTGTGTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTCTCTTCAATGTCAGTACTAGTAAGAGAGGTGGTAATTTTTTACC
TCTGAAATTTCTGGGTTTAGGTGTCAGCTCTTGAGCTGCTTCCCTCATCACACCACACTCATATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCCCTGGCACCTCCCCCAATGCTTGTCAATTTAATTTTGCCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAATCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTT
TGCTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAATATTTATAAACATTTACT
TTGTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCAAAAAGATGTATAAGAATGTA
CTAATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTA
AAATATGGAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGC
ATTAAATATTTGCCTATC

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FIGURE 2254

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTCAGCCCGTCTGGTAACTTGTCCAGATTGAATATGCT
TTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAA
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAAGTAGCTCAACAATACTATCTTGTG
TACCAAGAACCCATTCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT
GGTGTTTCGTCCATTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTATTTTCAGTCAGAT
CCATCTGGAGCTTACTTTGCCGTGGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTCCTTGAG
AAAAGATATAATGAAGATCTGGAACCTTGAAGATGCCATTACATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA
GGGCAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAACGTAA
GTTAAGGATTACTTGGCTGCCATAGCATTAACAATGAAGTGACTGAAAAATCCAGAAATTCAGATAATCTATCTAC
TTAAACATGTTTAAAGTATGTTTTGTTTGCAGACTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT
TTTAAAATGACACTTATAAATCCTAATAAACTGTTAAACCC

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FIGURE 2255

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV
YSGMGPDYRVLVHRARKLAQQYYLVYQEFIPTAQLVQRVASVMQEYTSQGGVRPFGVSLICGWNEGRPYLFQSD
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE
VKDYLAIA

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FIGURE 2256

GCTCGGCGCCCTCTTCCCTGCAAACCATGTTTGCCAAAGGCAGAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTT
GGGAAAAGTTAGCTTCATACGTCTACGAATATTTACTGCACGTAAGAGTACAGAAATCTGCAGAGACCTTCTTGT
CGGAGATTTCGATGGGAAAAAACAATCACGTTGGGAGAACCGCTGGGTTTTTGCACCTCGTGGTGGTGTGTATTG
GGGACCTTTTACTGTGCAGCTCCTCAAAGGAGAGACACTTGTGAACATTCAAGTGAAGCAAAAGCCTTTCATGATT
ATAGTGCAGCAGCTGCCCCGAGCCCCGTGCTTGGCAACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCC
CGCCAGGTTTTCTTTCAGGGTCCTCCGGGGTCACAGCCCTCGCCGCACGCACAGCCTCCACCTCACAATCCTAGCA
GCATGATGGGACCCACAGTCAGCCTCCGGGAGGAGTTCTTGGGACACAGCCATTGCTGCCCAATTCTATGGATC
CCACACGACAACAAGGCCACCCCAACATGGGAGGATCAATGCAGAGAATGAACCCTCCCCGAGGCATGGGGCCCA
TGGGTCCCGGCCACAGAATTACGGCAGCGGCATGAGACCACCACCAACTCCCTCGGCCCCGCATGCCCGGGAT
TAACATGGGCCCGGGAGCTGGCAGACCCTGGCCCAATCCTAACAGTGCTAACTCAATTCCATATTCCTCCTCATC
ACCTGGTACCTATGTGGGACCCCGGTGGTGGCGGCCCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCA
ACAAATTCCAGTGACAACATCTACACAATGACCTGGCGGCAGGTCCAATTCCCGATGGGTCCCGGCTCGGACGG
TCCGATGGGCGGCATGGGTGGCATGGAGCCACACCACATGAATGGATCATTAGGGTCAGGCGACATAGACGGACT
TCCAAAAAATTCTCCTAACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGG
AGGGAGCTTCTTCCACTCCTTTCAGAATGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCT
CCGAGACGCTGAGAGAGCCGGCATTGCAGGCGGGAAGACGCCAGAAATTATGCAAGAAGTGAGGTGTTATTATCC
AGGAGCTGGTGGGAGGGCATCTCCCTGCTCCCTAAACCCCTCCACCCCATCCACGCCCCCTACCTTTCCCA
ATTTTAGTTTCATGCAATAAAAAGGCCAAACTTTTATTCCATAAAAC

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FIGURE 2257

MFAKGRGSAVPSDGQAWEKLASVYVEYLLHVRVQKSAETFLSEIRWEKNITLGEPPGFLHSWWCVFGDLYCAAPQ
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQPFMSPRYVGGPGPPIRMGNQPPGGVLGT
QPLLNSMDPTRQQGHFNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPNLSLGPCCPGLTWARELADPGPIILTV
LTQFHIPPHHLVPMWDPRWWRPSRNTHYAQSRRFNKFQ

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FIGURE 2258

GGCGGGTTCGCGCCCCGAAGGCTGAGAGCTGGCGCTGCTCGTGCCCTGTGTGCCAGACGGCGGAGCTCCGCGGCC
GGACCCCGCGGCCCGCTTTGCTGCCGACTGGAGTTTGGGGGAAGAACTCTCCTGCGCCCCAGAGGATTTCTTC
CTCGGCGAAGGGACAGCGAAAGATGAGGGTGGCAGGAAGAGAAGGGCGCTTTCTGTCTGCCGGGTGCGAGCGCG
AGAGGGCAGTGCCATGTTCTCTCCATCCTAGTGGCGCTGTGCCCTGTGGCTGCACCTGGCGCTGGGCGTGCGCGG
CGCGCCCTGCGAGGCGGTGCGCATCCCTATGTGCCGGCACATGCCCTGGAACATCACGCGGATGCCAACACCT
GCACCACAGCACGCAGGAGAACGCCATCCTGGCCATCGAGCAGTACGAGGAGCTGGTGGACGTGAAGTGCAGCGC
CGTGCTGCGCTTCTTCTCTGTGCCATGTACGCGCCCATTTGCACCCTGGAGTTCCTGCACGACCCATCAAGCC
GTGCAAGTCGGTGTGCCAACGCGCGCGCGAGCTGCGAGCCCCCTCATGAAGATGTACAACCACAGCTGGCCCGA
AAGCCTGGCCTGCGACGAGCTGCCTGTCTATGACCGTGGCGTGTGCATCTCGCCTGAAGCCATCGTCACGGACCT
CCCGGAGGATGTTAAGTGGATAGACATCACACCAGACATGATGGTACAGGAAAGGCCCTTTGATGTTGACTGTAA
ACGCCTAAGCCCCGATCGGTGCAAGTGTAAAAGGTGAAGCCAACCTTTGGCAACGTATCTCAGCAAAAACACAG
CTATGTTATTTCATGCCAAAATAAAAGCTGTGCAGAGGAGTGGCTGCAATGAGGTCACAACGGTGGTGGATGTAAA
AGAGATCTTCAAGTCTCATCACCATCCCTCGAAGTCAAGTCCCGCTCATTACAAATTCCTTCTTGCCAGTGTC
ACACATCCTGCCCCATCAAGATGTTCTCATCATGTGTACGAGTGGCGCTCAAGGATGATGCTTCTTGAAAAATG
CTTAGTTGAAAAATGGAGAGATCAGCTTAGTAAAAGATCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAG
AACAGTTTCAGGACAAGAAGAAAACAGCCGGGCGCACCAAGTCGTAGTAATCCCCCAAACCAAGGGAAAGCCTCC
TGCTCCCAAACAGCCAGTCCCAAGAAGAACATTAAGTAACTAGGAGTGGCCAGAAGAGAACAAACCCGAAAGAGT
GTGAGCTAACTAGTTTCCAAAGCGGAGACTTCCGACTTCCTTACAGGATGAGGCTGGGCATTGCCTGGGACAGCC
TATGTAAGGCCATGTGCCCTTGCCCTAACAACCTCACTGCAGTGCTCTTCATAGACACATCTTGCAGCATTTTTC
TTAAGGCTATGCTTCAGTTTTTCTTTGTAAGCCATCAAGCCATAGTGGTAGGTTTGCCCTTTGGTACAGAAGG
TGAGTTAAAGCTGGTGGAAAAGGCTTATTGCATTGCATTAGAGTAACCTGTGTGCATACTCTAGAAGAGTAGGG
AAAATAATGCTTGTTACAATTCGACCTAATATGTGCATTGTAAAATAAATGCCATATTTCAAACAAAACACGTAA
TTTTTTTACAGTATGTTTTATTACCTTTTGATATCTGTTGTTGCAATGTTAGTGATGTTTTAAATGTGATCGAA
AATATAATGCTTCTAAGAAGGAACAGTAGTGGAATGAATGTCTAAAAGATCTTTATGTGTTTATGGTCTGCAGAA
GGATTTTTGTGATGAAAGGGGATTTTTTGAAAAATCTAGAGAAGTAGCATATGGAAAACATAATGTGTCTTTTT
TACAATGACTTCAGCTCTGTTTTTAGCTAGAACTCTAAAAACAAAATAATAATAAGAAAAATAATAAAAAAG
GAGAGGCAGACAATGTCTGGATTCCGTGTTTTTGTTTACCTGATTTTCATGATCATGATGCTTCTGTCAACACCC
TCTTAAGCAGCACCAGAAACAGTGAGTTTGTCTGTACCATTAGGAGTTAGGTACTAATTAGTTGGCTAATGCTCA
AGTATTTTATACCCACAAGAGAGGTATGTCACTCATCTTACTTCCCAGGACATCCACCCTGAGAATAATTTGACA
AGCTTAAAAATGGCCTTCATGTGAGTGCCAAATTTTGTCTTCTTCATTTAAATATTTTCTTTGCTAAATACATG
TGAGAGGAGTTAAATATAAATGTACAGAGAGGAAAGTTGAGGTCCACCTCTGAAATGAGAATTACTTGACAGTT
GGGATACTTTAATCAGAAAAAAGAACTTATCTTGCAGCATTTTATCAACAAATTTCATAATTGTGGACAATTGG
AGGCATTTATTTTAAAAACAATTTTATTGGCCTTTTGCTAACACAGTAAGCATGTATTCTCTATAAGGCATTCA
ATAAATGCACAACGCCCAAAGGAAATAAAATCCTATCTAATCCTACTCTCCACTACACAGAGGTAATCACTATTA
GTATTTTGGCATATTATTCTCCAGGTGTTTCTTATGCACCTATAAAATGATTTGAACAAATAAACTAGGAACCT
GCTATACATGTGTTTCATAACCTGCCTCCTTTGCTTGGCCCTTATTGAGATAAGTTTTCTGTCAAGAAAGCAG
AAACCATCTCATTTCTAACAGCTGTGTTATATCCATAGTATGCATTACTCAACAACTGTTGTGCTATTGGATA
CTTAGGTGGTTTCTTCACTGACAATACTGAATAAACATCTCA

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FIGURE 2259A

GCGTGTGCTGGGGCGAGCGGGAGCGGGCGAGGATGGGCACAGGATAGAGGCAGAGCCACCCACGCCGCCGCGGGCC
CCACGCTGGGCGACAGAGCCTCCAGTTCCTTCAATGGTGGCGGGTCGCCGAGCTCTGATCGCCGGGAACCCCT
TGCCGCTGCTGTCTGCGACCCCAAGCAGGTATAGACACGTGTGGCCGTTTACGCTGTAGGATCCTCATTCCCAC
TGGCTTTGAACATTTTGGGGACTTACAATGCCGCCACCCGCGGACATCGTCAAGGTGGCCATAGAATGGCCGGGC
GCCTACCCCAAACTCATGGAATTTGATCAGAAAAAACCTGTCTGCAATAATAAAGGAAGTCTGTGATGGGTGG
TCTCTTGCCAACCATGAATATTTTGCACTCCAGCATGCCGATAGTTCAAACCTCTATATCACAGAAAAGAACC GC
AATGAGATAAAAAATGGCACTATCCTTCGATTAACCACATCTCCAGCTCAGAACGCCCAGCAGCTCCATGAACGA
ATCCAGTCTCTGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGATGTCACGTTT
GCCCAGGAGTTTATAAACCTGGACGGTATCTCTCTCCTCACGCAGATGGTGGAGAGCGGCACTGAGCGATACCAG
AAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCTTCACCTGACGGCCTTCGTCGAGCTGATG
GACCATGGCATAGTGTCTGGGATACATTTTCGGTGGCGTTTCATTAAGAAGATAGCAAGTTTTGTGAACAAGTCA
GCCATAGACATCTCGATCCTGCAGCGGTCTTGGCCATTTTGGAGTCGATGGTGTCTCAATAGCCATGATCTCTAC
CAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCACACCTGCAAGGGTCAGATCAAGAAATCCAAACC
TATACTATTGCAGTGATTAATGCGCTTTTCTGAAAGGCTCTGATGAGAGGAGGCAGGAGATGGCGAATATTTTG
GCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATCCGAGCCCAGCGGGCCATCAACAATGAGATGGCG
CACCAGCTGTATGTTCTACAAGTGCTCACCTTTAACCTCCTGGAAGACAGGATGATGACCAAATGGACCCCCAG
GACCAGGCTCAGAGGGACATCATATTTGAACCTTCAAGAATTGCTTTTGATGCTGAGTCTGAACCTAACAACAGC
AGTGGCAGCATGGAGAAACGCAAGTCCATGTACACGCGAGATTATAAGAAGCTTGGGTTTCATTAATCATGTCAAC
CCTGCCATGGACTTCACGCAGACTCCACCTGGGATGTTGGCTCTGGACAACATGCTGTACTTTGCCAAGCACCAC
CAAGATGCCTACATCCGGATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGCAGT
AGTAGAGCTGACCAAGATGCTATGTGAGATCTTGAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTC
CACCCGATGTTCTTACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACA
TGGAAGGAAATGAGGGCAACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGAGCA
CTTACAACCAAGCCTAGCTCCCTGGACCAAGTTCAGAGCAAACTGCAGAACCTGAGCTACACTGAGATCCTGAAA
ATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCGATTTTGGAACCTAAGGAGAAGATTACAG
CCAGAAATCTTAGAGCTGATCAACAGCAACGCCTGAACCGCCTTGTTGGAAGGGACCTGCTTTAGGAAACTCAAT
GCCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGGCTTTTCGCCAAATCACAAGTCTGCAATACGGAGACTTA
GAAGAGAGTCTCAGGGAGAAGTGCCCCACGATTCTTGCAGGACAACTGCCGGTGGCAGATATCAAAGCCGTG
GTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAACCTCGCT
TTCTCCATCTTGTATGACTCAAAC TGCCAACTGAACCTCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACG
GATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGC
ATGGAATCAAGCTCCGCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAG
CCCAGCAACTATGACTTCGTCTATGACTGTAAC TGAAGTGGCCGGGCCAGACATGCCCCCTCCAAAACCTGGAAC
ACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGGAACCGTCTTTGGTAAAGGGAAGCTGTGGG
TCCACATTCCTTCAGCATCACCTCTAGCCCTGGCAACTTTCAGCCCTAGCTGGCATCTTGCTCACCGCCCTGA
TTCTGTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAAGCCCA
CTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGCAGGAA
AGCCAGCAGCCCCAGACTGCCCAAAACTTGCCACCAGACCAAGGGCAGTGCCCAAGGCCCTGTCTGGAGGA
AATGGCCTAGCTATTTGATGAGAAGACCAAAACCCACATCCTCCTTCCCTCTCTCTAGAATCATCTCGCACCA
CCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCCTGCTTTTGCTTGTCTGTTC
TCTTTGGTCCCAAGAGCAGCAGCCGACGCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCCACAGG
TCCCATTGCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTTTCTC
TCCCTGCCCCAGGCCAGAACTGCCTTCTTCATTTCCACCCACGCTCCACGCTCTTAGCTGAAAGCACAAATGGT
GAAATGCACTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCCAAGCG
TTTGGTGTACCTTCTCCTGGGAGGTCTGTGCAACTCAAGTTCCACAGGATGGTCAAGCTGTGACATCCAA
GTTTACATCAATTGAATTATTACTGGTATTTACAATTTGCAAGAGTTTGGGTTAGTTTTTTTTTTTTTTTGTCT
TTGTTTTTGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATTTAATGAAAAGAAGAGATACATAAAT
GTGTGAATTTCCAGTTTTTTTTTAATTATTTTAAATCCCAAACATCTCCTGAAAATAACATTCCCTTAAACATGC

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FIGURE 2259B

TGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2260

CATTAAAGGTGTGCGGCGGGTCTCTGTTACATGGCTCAACTGGAAACCTGTTTCATGAACAAGCTTACTCAGG
AACCATCTGGTGGTATTCCAGCACATTGTTCTTCAGGGGACGACTCTAAGTCGCTTTGTGGTGGCAGCAGCTTA
GAATCAGTATTGTGGTTGGGAAAGATGGACTTACGGGAGCTTGGTAATGCAGGTGGTGAAGGAGCAGGTTATGA
GAGCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCC
TGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCAGTCCCGCCGATTTTGGAATAAAGGAGAAGA
TTCAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGTTGGAAGGACCTGCTTTAGGAAAC
TCAATGCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGCGCTTCGCCAAATCACAAAGTCCTGCATTACGGAG
ACTTAGAAGAGAGTCCTCAGGAGAAGTGCCCCACGATTCTTGCAAGGACAAACTGCCGGTGGCAGATATCAAAG
CCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAAC
TCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAAGTGAACCTTCATCGCTCCTGACAAGCATGAGTACTGTATCT
GGACGGATGGACTGAATGCGTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGC
TCAGCATGGAAATCAAGCTCCGCCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCA
AGGAGCCCAGCAACTATGACTTCGTCTATGACTGTAACTGAAGTGGCCGGGCCCAGACATGCCCTTCCAAAACCT
GGAACACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGGAACCGTCCTTTGGTAAAGGGAAGCT
GTGGGTCCACATTCCCTTCAGCATCACCTCTAGCCCTGGCAACTTTCAGCCCTAGCTGGCATCTTGCTCACCGC
CCTGATTCTGTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAA
GCCCCTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGC
AGGAAAGCCAGCAGCCCCAGACTGCCCAAAAACCTTGCCACCAGACCAAGGGCAGTGCCCCAAGGCCCTGTCTG
GAGGAAATGGCCTAGCTATTGATGAGAAGACCAACCCACATCCTCCTTTCCCTCTCTCTAGAATCATCTCG
CACCACCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCCACCTCTCTCCTGCTTTTGCTTGCTCT
GTTCTCTTTGGTCCCAAGAGCAGCAGCCGCAGCCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAACAGTCC
ACAGGTCCCATGCCACCTTTCGCTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTT
TCCTCTCCCTGCCCCAGGCCAGAAGTGCCTTCTTCATTTCCACCCACGCTCCCAGCCTCTTAGCTGAAAGCACAA
ATGGTGAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTGCTATCC
AAGCGTTTGGTGTTACCTTCTCCTGGGAGGTCTGTGCAACTCAAGTTCCACAGGATGGTCAAGCTGTCAGACA
TCCAAGTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTGGGTTAGTTTTTTTTTTTTT
TTGCTTTGTTTTTGGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATATTTAATGAAAAGAAGAGATACA
TAAATGTGTGAATTTCCAGTTTTTTTTTAAATTATTTAATCCCAAACATCTTCTGAAAATAACATTCCCTTAAA
CATGCTGTGGAATAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2261

MQVVKEQVMRALTTKPSSLDQFKSKLQNLSTYILKIROSERMNQEDFQSRPILELKEKIQPEILELIKQORLNR
LVEGTCFRKLNARRRQDKFWYCRSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
LKQNKVELELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKRLRLDLENIQ
IPDAPPPIPKEPSNYDFVYDCN

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FIGURE 2262

GCACCTCCGGCAGCGGTTCTCAGGCCAAGCCCTTGCACGATGGCCAGCGAGTTCGAAGAAGAAGCTCTTCTGGAGGG
CAGTGGTGGCCGAGTTCTCTGGCCACGACCCTCTTTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATACC
CGGTGGGGAACAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCTGCTGGCCTTCGGGCTGAGCATGCCACGC
TGGCGCAGAGTGTGGGCCACATCAGCGGCGCCACCTCAACCCGGCTGTACACTGGGGCTGCTGCTCAGCTGCC
AGATCAGCATCTTCCGTTGCCCTCATGTACATCATCGCCAGTGCCTGGGGGCCATCGTCGCCACCGCCATCCTCT
CAGGCATCACCTCCTCCCTGACTGGGAACTCGCTTGGCCGCAATGACCTGGCTGATGGTGTGAACTCGGGCCAGG
GCTTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGTCTATGCGTGTGGCTACTACCGACCGGAGGCGCCGTG
ACCTTGGTGGCTCAGCCCCCTTGGCATCGGCCTCTCTGTAGCCCTTGGACACCTCCTGGCTATTGACTACACTG
GCTGTGGGATTAAACCTGCTCGGTCTCTTGGCTCCGCGGTGATCACACAACTTCAGCAACCACTGGATTTTCT
GGGTGGGGCCATTTCATCGGGGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACC
TCACAGACCGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAACTCCA
GGGTGGAGATGAAGCCCAAATAGAAAGGGGTCTGGCCCCGGGCATCCACGTAGGGGGCAGGGGCAGGGGCGGGCGGA
GGGAGGGGAGGGGTGAAATCCATACTGTAGACACTCTGACAAGCTGGCCAAAGTCACTTCCCCAAGATCTGCCAG
ACCTGCATGGTCAAGCCTCTTATGGGGGTGTTTCTATCTCTTTCTTTCTCTTTCTGTTTCTGGCCTCAGAGCTT
CCTGGGGACCAAGATTTACCAATTCACCCACTCCCTTGAAGTTGTGGAGGAGGTGAAAGAAAGGGACCCACCTGC
TAGTCGCCCCCTCAGAGCATGATGGGAGGTGTGCCAGAAAGTCCCCCTCGCCCCAAAGTTGCTCACCAGCTCACC
TGCGCAAGTGCTGGGATTCTACCGTAATTGCTTTGTGCCCTTGGGCAGGCCCTCCTTCTTTTCTAACATGCAC
CTTGCTCCCAATGGTGTCTTGGAGGGGGAAGAGATCCAGGAGGTGCAGTGGAGGGGGCAAGCTTGTCTCCTTCAG
TTCTGCTTGTCTCCCAAGCCCCCTGACCCGCTCGGACTTACTGCTGACCTTGGAAATCGTCCCTATATCAGGGCCTG
AGTGACCTCCTTCTGCAAAGTGGCAGGGACCGGCAGAGCTCTACAGGCCTGCAGCCCCTAAGTGCAAACACAGCA
TGGGTCCAGAAGACGTGGTCTAGACCAGGGCTGCTCTTTCCACTTGCCCTGTGTCTTTCCCCAGGGGCATGACT
GTCGCCACACGCCTCTGCATATATGTCTCTTTGGAGTTGGAATTCATTATATGTTAAGAAAATAAAGGAAAATG
ACTTGTAAAGTC

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FIGURE 2263

MASEFKKKLFWRAVVAEFLATTLFVVFISIGSALGFKYPVGNNQTAVQDNVKVSLAFGLSIATLAQSVGHISGAHL
NPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSGQGLGIEIIGTLQLV
LCVLATTDRRRRDLGGSAPLAIGLSVALGHLLAIDYTGCCINPARSFGSAVITHNFSNHWIFWVGPFIGGALAVL
IYDFILAPRSSDLTDRVKVWTSGQVEEYDL DADDINSRVEMKPK

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FIGURE 2264A

TCAGTCCCCGTGCACAGACCTGCACAAATGGCTGAGCCTCATCATTCCTGACAGCGAGGAGATCTTGGATGTGCC
AGGCCTAGTGAAGACCAACAATCTCACTGCAGGGCCCGCCAGCCCCAGGGAAGGGGAGGAGTTCTTGCCGCGCC
GACGCCGCCGTGCCCACGGCAACGCGGCCATACTGCGCCGGACAGACCCAGTTGCCTGGTGCTGCGGCCCGGCGT
GGGCTCGTGGGCAGAGCCAGAGCCAGAGCCATGGACAGCCTCTTCGTGGAGGAGGTGGCCGCTCTCTGGTCAG
GGAGTTCTCAGCAGAAAGGGCTTAAAGAAGACATGTGTGACCATGGACCAGGAACGCCACGCTCTGACCTCAG
CATAACAACAGAAATGATCTTCGAAAGGTTTTGCATCTTGAATTTCTCTATAAGGAGAAACAAGGCAAAGGAAAA
TCCTCTAAAAACAAGCCTTGAACCTCATCACCAGATACTTTCTGGATCACTTTGGAATACGGCTAACAAATTCAC
TCAAGATACCCCAATCCCTGCACTCTCAGTTCCAAAGAAAAATAACAAAGTGCCATCAAGATGCTCAGAGACTAC
ACTGGTAAATATATATGACCTTTTCAGATGAAGATGCAGGATGGAGAACATCATTGTGAGAAACAAGCAAAGCCAG
ACATGACAATCTTGATGGAGATGTACTTGGTAATTTGTATCATCTAAAGGCCCGCCACAAAAGTAAGCCCAT
GCAGACGGTCCCGGGTGAACTCCTGTGTTGACTTCTGCATGGGAGAAGATAGACAAGCTTCACTCGGAGCCTTC
CTTGGATGTGAAGAGGATGGGAGAGAATCCAGGCCAAAGTCTGGTCTGATTGTGCGAGGCATGATGTCTGGGCC
CATCGCCAGCTCCCCACAGGTGAGGAAATCAGGGACAGAGAAGTTAAGCAGCTTGCCACAGGTGACACAGTTGGT
AGGTGGTGATGCAGACTGGAGCGACGGCTTCACCTGTGTCATGAACCTGCTCTCTGATTCTTTTCACAGACACTA
TCTGAGACGGTCCCTACCGTCAAGCAGCTCCACCCAACCCCAAGAAGAGAGCCGGAAGGTCCCTGAGCTCTTTGT
CTGCACCCAACAGGACATTCTGGCTTCGAGCAACAGCTCCCCCTCCAGGACCTCCCTGGGTGAGCTTAGTGAAC
GACCGTAGAAAGGCAGAAAACCACTGCCAGCAGCCCTCCCCATCTGCCACGAAACGGCTGCCCCATGGGACAG
GGCCAGGCCGAGGGATCCCTCCGAGGACACCCAGCAGTGGACGGCAGCAGACACGGACAGGATGCCCTTGAA
GCTCTACTTGCCTGGTGGTAATTCCAGGATGACCCAGGAGAGGCTGGAAAGAGCGTTCAAACGGCAGGGCAGCCA
GCCCCACCTGTTCAGGTATTACAGTAAAGATAAACTGCAAGCCTGTCCCTGGATATCACCTTAGATGCATTGGA
TGCCCTGGGGGGAAAGTTTGTCTGGTATCCCTGGGGTCTCATTCTTAAAGACTGAAGCAGCTCTCTGTTCTTCCC
CAGCGTGTTTTTCTACGGCCTGCATTGGGTTTTGCTGCATTTCAGACATTTTGGATAATGTACACTTATGGAA
AAATCAGTTGCTGCCGTCTGACAAGGTGGATGGTGAGCTGGGTGCCCTGCGGCTCGAGGATGTGGAGGATGAGTT
GATAAGGGAAGAGGTATCCTGTGCGCCAGTCCCATCAGTGCTCAAGTTGCAGACAGCATCAAACCAATTGACCT
CTCAGTAGCAAAGGCACCTTCAGATGTGGCTGGTGACGAAGAGCTGGGGAATAAGACCCCTCTGCTTTGGAGATGT
TAAATTTGAACATGGATTTAAGGAGCATTGCTTCCCACTAGCCTTTGCCAATGTGTCCAGGAGTCAGATCCTG
TGCTAAGCCCCGTGATGCCACAGAGATGAGCTCCTCAAGAAGCCTCTGCACCACAGGGGTGGTCTTGGCGAGT
CCTGGCAGCTGTCCAAGGCTGTGTCTACAGAACTCCTGTTTGAAGGAGATAGCAAAGCCGACTGTGCTCAGGG
ACTGCACCTTCAGATGCCACCCGACCCGCTGCCTCGTCTGGCCCTCGCAGACATTGTGTGGCGGCAGGGGG
CCGAGAGAGAGCCGTTGTTGCACTGGCTTCGAGAACACAGCAGTTCAAGTCCAACAGGGAATAACAAAGCAGATGG
AGTCTTAGAAACACTTACGCTTCACAGTTTGACCTGCTATGAGGACCTGGTGACTTTCTTCAACAAAGCATTCA
TCAGAACTTTCCCAAAGACCTGAAGGCCTGGGCACAGCCCTGGGAAATGATCAGGCCCTGGCAGCACCAGATGT
CCCTTGGGTAGGCAATGGGGCTACCTTAGGAACAAAAGGAGGCAGTTTGAAGTGGGCCCCCTATGGCTGCATCCT
GCTCACCTTTCTGCCATCCTGTCCAGGTCTACAGAGCTGGGCCCTGCTGTGGATTGGGGGAGGACAGTGGGG
GCTCTGTGGCCTCGTGCGCCAGGCTGCCTGCTGCTTCTGACCTTATTAAATGCGTACCAGAGCCAGGG
TGAGGACATCATGGACAGATGTAAACCTAGCCGAGTGCTGCCGACCACTGCCTGCCTGGCCACTTCATTGTGAGA
GGCCCCAAGAAGAGTCGAGAAACAGACCTTTGAGGGAGCTCTCACAAGCCCCAAGGATGCTCAGGGTCTTGGGGT
CAGGACAGCTCTGAACCAGACCTGGGCAGCACTGAGCATGGGCTGCTCTGGTGCCTCAGTGGAGCACAGACCTGG
CCAGGTCAATTGAGGCCCTGAGAAGGGTCCAGTGTGACCCCCAGGGCCGTGTGTGCCCCAGGGTTGTGTGATCCC
CCCTGGGTGAGGGGCCCTCAATGGACCTCACAGGGGCAAAGAAGACCCTGAGCACAGTTGCTTGTCTCATCAGTCTT
CTCAGTCACCCAGGAACCTTGTCAATCTGCTCCTGACTGGGAAAGCTGTGTCCAACGTTTCAACAGATGTGGTTGA
GCTGGATTCTGGGGATGGGAACATCACACTTCTCAGAGGCATTGTGTCACGCAGTGATATTGGCTTCTTATCTCT
CTTTGAGCATTACAACATGTGCCAGGTGGCTGCTTCTGAAGACCCGAGGTTCCCCATCTGGGTGGTTTCAG
TGAGAGCCACTTCAGCATCCTCTTTAGCCTGCAGCCGGGGCTCCTGCGTGACTGGAGGACTGAGAGGCTCTTTGA
CTTGTACTACTACGATGGCCTGGCCAACAGCAGGAGCAGATCCGGCTGACCATTGACACCACCCAAACCATCTC
TGAGGACACAGACAACGACCTTGTCCCACCCCTCGAGCTCTGCATCAGAACCAAGTCTGTGTTCCATGTCTGCGA
GAACCTTGTGTGACACCAGCTGCCTGCTGTTCCACTTCCCCCATCAATCCCCCATCATGGTGGGTCCACCTTGGC
AGTTGTTCTAGAAAAGCTGAGTGGGCTCTATCAGGCACCTTTTTCCCCATGAAAAACACTGGGTCCATCAACGT

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FIGURE 2264B

TGAAAAGCAGTTAAGGCAGTATCAGCAATGGGCACTCACTGCCGAGGAGAAGTCTGACTTCACCAAGCCAAGCCA
GTTTGTCTCCAAATACGGCACCAGTGTCTCTTATTTGAGCAGTGAAGATGAACGCTCTGATATGGATAAAATTCCA
TCAAAGTGGCTCAACCCCAAACCAATAGACTCCTCTGGATCTGCTTGACACACAGAAGCCCAGTAAATAGTCT
GAAGCACTTGGATAGCATAGAAGCACTTAATTCTTCCACATCCAATGGATTTCAAAAAGAAGATGAGAACATGCA
GAAGTGCAGTGGCCTGCTGATGAAGAAGGGGACCCAGCAGCCTCTTCCCAAAGTGGCCTGGCTGCCTGCAGCC
TTCCCTGGTGTCTTTGATTACCTGGGTCCTTGGCCTCTGGCTCCCATGTCCATCTGTCAAATCCTACCCATC
CCACAAGGCCAGCTCCAAGGCCCTCCTCTAAGAAGCCCTCCTGGATTACCCAGCCGACAGTTCAAGTCCTCCCC
TCTGAGTGCTCACAGGACTCAATCACCTCCTCTTTCACAAGCCTAG

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FIGURE 2265

GTCAC TCGTATAAAAACCTATGCTTTGAAGGTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAACTTCGGCGGGGTCTTCCGGGTTTTGTGTGCAATCTGCGGCGGCGACCCGGCGCCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTGTTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCGCTTCCGTGCCACCTCTCTGGACAGCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCGCTCTGCTGCTGCTGCTGCCGCCCGGCTCTTAGCCCGACCTCGCTCCTCC
TCCGCCGGTCCCTCAGCGCGGCTCTGCGCCCCGATCTCTTGCCCGCCGCGCTCCCGGAGCAGCATGGACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCGCCAGCAGGGAGATCTTGTGCGAAAACTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAGACGTAA
AAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGTT
CTGTGCGAAAAGAAATCAGAAATGGAAGTGTTTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGGCGATC
TTTTTGTGAACATAATGTAAATCTCCCACTTACTGGAATGATCTATCCCTCCAGTGTCTTTAACTTAATGT
TCAAGACTTTTCATGGGCGCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATTTCTTTAGAA
ATGAGATCTCCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTCCAGAATGTGGCAGACCTTACCTTTATTTGTATTACAGAAAAGCCAGG
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTCATGGCCGATCTACCTCTACCTCACGAAGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCCATTTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTCCTGTTATGACCTCTCTGTGATGCACGAGCCACCAAAGTCCCCTTTGTAG
CTGAGAAACCTCTGAAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTCAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGGCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTCCCACTGAGCCAAAACCAGGAGTTCATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTTGACTTTGACACAGTGAACAAGACCCCCC
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAGAGACAATCGAGGAATGAGGACAATTTTGACAACTTTTGACCACTTGCGCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCAGGGACCGTATTTTATCTTCAGTGGC
TGCCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 2266

MDGAGAEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTSGHVDFADFMVK
DVKNGEFCFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQLADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHDPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKKDAKLVMEYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLVVEEVVNPVIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTFIDFTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 2267

ATGACAGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAAGCCATCTCCAAGACAGCG
GTAGCGCCCATCGAGCAGGTCAAGCTGCTGCTGCAGGCTTTTAACTTCGCCTTCAAAGATAAAATACAAGCAGATC
TTCCTGGGTGGGAATCTGGCATCAGGAGGTGCCGCTGGGGCCACATACTTGTGTTTTGTGTACCCTCTTGATTTT
GCCCCGTACCTGTCTAGCAGCTAATGTGGGTAAAGCTGAAGCTGAAAGGGAATTCCGAGGCCTCTGTGACTGCCTG
GTAAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCTATGCAGGGTATTATCCGA
GCTGCCTACTTCGGTATCTATGACACCGCAAAGGGAATGCTTCCGGATCCCAAGGACACTCACATCGTCATCAGC
TGGATGACCACACAGACTGTCACTGCCTTTTCTGGGTTGACTTCCTATTCAATTTGACATCTCAGGGCGCAAAGTA
ACTGACATCATGTACACAGGCACACTTGACTGCTGGAGGAAGATTGCTGGTGATGAAGGAGGCAAAGCTTTTTTC
AAGGGTTCATGGTCCAGTGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGCTTTGATGAAATCAAGAAG
TACAGGTAA

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FIGURE 2268

MTDAAVSFAKDFLAGGVAEAIKTA VAPIEQVKLLQLQAFNFAFKDKYKQIFLGGNLASGGAAGATYLCFVYPLDF
ARTCLAANVGKAEAEERFRGLCDCLVKIYKSDGIKGLYQGFNVSMQGIIRAAYFGIYDTAKGMLPDPKDTHIVIS
WMTTQTVTAFSGLTSYSFDISGRKVTDIMYTGTLD CWRKIAGDEGGKAFFKGSWSSVLRGMGGAFLVLFDEIKK
YR

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FIGURE 2269

TCGGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCGCCCGCGCGGGGGCCGAGTCGCGAAGCGCGCCTGCGAC
CCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCT
CGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAGCATTGCTGGTATTTGGAAGGACTCTATCCAACCTATTATAT
ATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTT
CTGGTTCCCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTTCATCCGGAGGCGCATGTACCCCC
GCCGTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCAGCA
GCCGGGGCCGCCCTATTACACCGACCCAGGAGGACCGGGATGAACCCTGTGCGGAATTCCATGGCAATGGCTTT
CCAGGTCCCACCCAACCTACCCCAGGGGAGTGTGGCCTGCCCGCCCCCTCCAGCCTACTGCAACACGCCTCCGCC
CCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCC
CTGGCCTTTCTGTCTTCGTTGATGTTTCACTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTTCTCTGATAT
CCTCACAGCAAGCACAGCTCTCTTTTCAAGGCTTCCATGGAGTACAATATATGAACTCACACTTTGTCTCTCTGT
TGCTTCTGTTTCTGACGAGTCTGTGCTCTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCTTACG
GTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCTGGAGGTGCAGGTGGCATGTAGAGG
GGCCAGGCCGAGCATCCAGGCAAGCATCCTTCTGCCCGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGC
CGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTATCTGCTCCAGCCTGTCTCTCTGTCAGCCTTCTCT
TCCAGAAGCTGTTGGAGAGACATTGAGGAGAGACAAGCCCCCTGTGTCATGTTTCTGTCTCTGTTTCATATCCTAAA
GATAGACTTCTCTGACCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGC
TTGCCTTGGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCTGTC
CCCAAACCTGAGACATTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTGGTGT
GTTTATGGAAGTGCATGTAGAGCGTCTGCCCTTTGAAATCAGACTGGGTGTGTGCTTCCCTGGACATCACTGC
CTCTCCAGGCATTCTCAGGCCCGGGGTCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTT
CAAAACGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCT
GAGGTTGTTGTTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAG
TACTGACTCAACTGCACTGACCATGTTGTGTCATAATTAGAATAAAGAAGAAGTGGTCGGAAATGCACATTCCTGGA
TAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCG
CCGCATAGTTATAGTGTTGATGTGTGAACGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCG
CCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGTGCTTATTTTTTAATGAACATAATCAGAGCCT
CTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGTGTCC
ATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCTGGGGAAATTTGTGGGAGACACTTGGGAACAAAACA
GACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACAGTGTCTCTGACCACCCTGGTGTGACTGCTGACT
GCCAGCGTGGTACCTCCCATGTGTCAGGCCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAAC
CAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCCCTCAGGTCAATTTGTTTGCATTTTAAATGTCTTTATTTTT
TGTAATGAAAAAGCACACTAAGCTGCCCCTGGAATCGGGTGCAGCTGAATAGGCACCCAAAAGTCCGTGACTAAA
TTTCGTTTGTCTTTTTGATAGCAAATTATGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTTGTATTCCCAT
GTTTGTGTGAGACAGAGTTTGTTCCTTGAACCTGGTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATAT
GGAAGTCCCACTTCGGTGACATTTCTGGCCATTCTGTTCATTGTGTGGATGGTGGGTGTGCCCACTTCCCT
GGAGTGAGACAGCTCCTGGTGTGTAGAATTCGCGGAGCGTCCGTGGTTCAGAGTAACTGAAGCAGATCTGTGC
ATGCTTTTCTCTGCAACAATTGGCTCGTTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCTATGTGTG
CAAAATAAAAATAAATTTGGGCA

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FIGURE 2270

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYIICRSYEDCCGSRCCVRALSIQRLWYFWFLLMMGVLFCC
GAGFFIRRRMYPPFLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVGNSMAMAFQVPPNSPQGSVA
CPFFPAYCNTPPPPYEQVVKAK

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FIGURE 2271

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGTGGCAGCTGAGGAGA
CCGGCGCTCGCCATGGCCGACGAAAAGCCCAACCAAGGAGTCAAGTCGGAGAACAACGATCATACTAATTTGAAG
GTGGCGGGGCAGGATGGTTCGTGGTGCAGTTTAAGATTAAAGAGGCATACCACTTAGTAACTAATGAAAGCC
TATTGTAAGCAACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATCAAGGAAACAGAC
ACACCTGCACAGTTGGAAATGGAGAATGAAGATAACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTTGA

AAAGGGAACCTGCTTCTTTACTCCAGAACTCTGTTTCCTTAAAGACCAAGATTACATTCTCAATTAGTCTTTTCATT
TCCCCCTTCCCCATTCTTTATTGTACATAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTT

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FIGURE 2272

MADEKPNQGVKSENNDHTNLKVAGQDGSVVQFKIKRHTPLSKLMKAYCKQQGLSMRQIRFRFDGQPIKETDTPAQ
LEMENEDTIDVFQQQTGGVY

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FIGURE 2273

GGAGGAAAATTCTTCCAGCGATGGTCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTT
TTGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGG
TGTCAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCA
TCCAGCCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCAACCTGACCCCGGCATAAGGGAGC
TGGTAAGTCGCCTACAGGAGCGAAATGTTTCAGGTTTTCTTAATATCTGGTGGCTTTAGGAGTATTGTAGAGCATG
TTGCTTCAAAGCTCAATATCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATG
CAGGTTTTGATGAGACGCAGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAACTTTTAAAGGAAAAAT
TTCATTTTAAGAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCCTCCTGCTGATGCTTTCA
TTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAATGGTATATCACTGATTTTGTAGAGC
TGCTGGGAGAACTGGAAGAATAACATCCATTGTCGTACAGCTCCAAACAACCTTCAGATGAATTTTACAAGTTAT
ACAGATTGATACTGTTTGCTTACAGTTGCCTATTACAACCTTGCTATAGAAAGTTGGTACAAATGATCTGTACTTT
AAACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTTAACTGTAGTTCCAGTATTATATGATGACTA
TTGATTTCTGGAGAGGTTTTTTTTTTTTTTTGGAGACAGAATCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCG
CGGTCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA
CTACAGGCACCCGCCACCACATCCGGCTAATTTTTTTGTATTTTTTAGTAGAGACGGGGTTTGACCGTGTAGCCAG
GATGGTCTTGATCTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTCTGGGATTACAGGCTTGGGCCA
CCGCGCCAGCCAATGTCTAGAGAGTTTTTGIGATCTGAATCTTTATGTATATTTGTAGCTATATTTCATACAA
AGTGCTTTAAGTGTGGAGAGTCAATTAACACCTTTACTCTTAGAAATACGGATTTCGGCAGCCTTCAGTGAATAT
TGGTTCTCTTTGGTATGTCAATAAAAGTTTATCCGTATGTCAGAACGGATTGTGG

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FIGURE 2274

CGAGAAGACCCGGATAGTTCTCTCCCGGCCACGCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCTCTCCG
CTGGAGCAGCTATGGCGGGCGGTGAAGACCCTGAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGG
TCAACATCAGCGCAGCGCGGGGTCTGCAGGACGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGC
TCGTTTCTGGCGCTGGAGACATCAAACCTTACTAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACC
CAACAGCTTCCTTAATAGCAAAGGTAGCAACAGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCC
TAATCATTGGAGAGCTGCTGAAACAGGCGGATCTCTACATTTCTGAAGGCCTTCATCCTAGAATAATCACTGAAG
GATTTGAAGCTGCAAAGGAAAAGGCCCTTCAGTTTTTGGAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAA
CACTTATAGATGTGGCCAGAACATCTCTTCGTACTAAAGTTCATGCTGAACCTGCAGATGTCTTAACAGAGGCTG
TAGTGGACTCCATTTTGGCCATTAAAAAGCAAGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGA
AACATAAATCTGAAACTGATACAAGCTTAATCAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGA
AGAAAAGGGTGGAGGATGCATACATCCTCACTTGTAACGTGTCAATAGAGTATGAGAAAACAGAAGTGAATTCTG
GCTTTTTTTACAAGAGTGCAGAGAGAGAGAAAACTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTA
AAAAAATAATAGAAGTGAAGGAAAGTCTGTGGCGATTGAGATAAAGGATTTGTTGTTATTAATCAAAAGGGAA
TTGACCCCTTTTCCTTAGATGCTCTTTCAAAAGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGG
AGAGGCTGACTCTTGCTTGTTGTGGTGGGGTAGCCCTGAATTCCTTTGACGACCTAAGTCCTGACTGCTTGGGACATG
CAGGACTTGATATGAGTATACATTGGGAGAAGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTCTG
TCACATTATTGATCAAAGGACCAATAAGCACACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGG
CTGTCAAAAATGCTATTGATGATGGCTGTGTGGTTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCC
TGATTAAACATAAGCCCAGTGTAAGGGGCAGGGCACAGCTTGGAGTCCAAGCATTGCTGATGCATTGCTCATTA
TTCCCAAGGTTCTTGCTCAGAACTCTGGTTTTGACCTTCAGGAAACATTAGTTAAAATTC AAGCAGAACATTGAG
AATCAGGTCAGCTTGTTGGGTGTGGACCTGAACACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATA
ACTATTGTGTAAAGAAACAGCTTCTTCACTCCTGCACTGTGATTGCCACCAACATTCTCTGGTTGATGAGATCA
TGCGAGCTGGAATGTCTTCTCTGAAAGGTTGAATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTG
ATCCTGAGGATTACAGCTGTGGAATTTTGTCCAAGCTTCAAATAATTTGAAAGAAATTTCCCATATGAAAAA
AGGAGAGAACTGGCATCTGTTGAAATTTGGAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGT
ATACACATAAAGCAGGTCTTTTATCCAGTGAACAGGATGTTTGCTTTAGCAGCAGTGACATAAAATTCATGTT
AGATAAGCATATGTTACTTACCTTGTTATTAATAATTTCTTGAAGCAGGCCACGAAGG

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FIGURE 2275

MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLTGDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAEADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTSIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIEKRVCGDSKGFVVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAG
MSSLKG

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FIGURE 2276

CAGACACACTGTGACGGCTGCCTGAAGCTAGTGAGTCGCGGCGCCGCGCACTGGTGGTTGGGTCAGTGCCGCGCG
CCGATCGGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTCGCCGGCTTC
TGGGTCTTTGAACAGCCGCGATGTCGATCTTCACCCCCACCAACCAGATCCGCCTAACCAATGTGGCCGTGGTAC
GGATGAAGCGTGCCGGGAAGCGCTTCGAAATCGCCTGCTACAAAAACAAGGTCGFCGGCTGGCGGAGCGGCGTG
AAAAAGACCTCGATGAAGTTCTGCAGACCCACTCAGTGTTTGTAAATGTTTCTAAAGGTCAGGTTGCCAAAAAGG
AAGATCTCATCAGTGCGTTTGGAACAGATGACCAAACTGAAATCTGTAAGCAGATTTTGAATAAAGGAGAAGTTC
AAGTATCAGATAAAGAAAGACACACAACTGGAGCAGATGTTTAGGGACATTGCAACTATTGTGGCAGACAAAT
GTGTGAATCCTGAAACAAAGAGACCATAACCGTGATCCTTATTGAGAGAGCCATGAAGGACATCCACTATTCGG
TGAAACCAACAAGAGTACAAAACAGCAGGCTTTGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAAC
GTGCTCACATGAGGCTTCGGTTCATCCTTCCAGTCAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGA
TCAAGGTCATAGAAAGTGAAGATTATGGCCAACAGTTAGAAATCGTATGTCTGATTGACCCGGGCTGCTTCCGAG
AAATTGATGAGCTAATAAAAAAGGAACTAAAGGCAAAGGTTCTTTGGAAGTACTCAATCTGAAAGATGTAGAAG
AAGGAGATGAGAAATTTGAATGACACCCATCAATCTCTTCACCTCTAAACAC

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FIGURE 2277

MSIFTPTNQIRLTNAVVRMKRAGKRFEIACYKNKVVGWRSGVEKDLDEVLQTHSVFVNVSKGQVAKKEDLISAF
GTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKREYTVILIERAMKDIHYSVKTNKST
KQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKKLKEKLKPLIKVIESEDYGQQLIVCLIDPGCFREIDELIK
KETKGKGSLEVLNLKDVEEGDEKFE

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FIGURE 2278

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCAGGGC
ACCTTCAAACCTGAACCTCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCCGAAGCGGATCAATGTCTTGCCTTGGGGAGGTGG
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTGACAGACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCTATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCTCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG

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FIGURE 2279

MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKVAEEWA
QGTfKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAE
RDVLFPGYTHLQRAQPIRWSHWILRAIAGNPLGVDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTH
LSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQE
DKEAVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVRKGMPPRQAHEASGKAVFMAETKG
VALNQLSLQELQTISP LFSGDVICVWDYGH SVEQYGALGGTARSSVDWQIRQVRALLQAQQA

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FIGURE 2280

CTCTTTCCCATCTTGCAAGATGGCAGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGCAAGAGGGTAATCTTAAAGTTAAAAAGCCCAAGAAGGGGAAGCCCTATTG
CAGCCACAACCCTGTCCTTGTCAGAGGAACTGGCAGGTATTCCCGATCTGCCATGTATTCTAGAAAGGCCATGTA
TAAGAGGAAGTACTCAGCCGCTAAATCAAAGATTGAAAAGAAAAAGGAGAAGGTTCTTGCAACTGTTACAAAACC
AGTTGGTGGTGACAAGAATGGTGGTACCCAGGTGGTTAACTTCACAAAATGCCTAGATACTATCCTACCGAAGA
TGTACCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCCTTCAGTCAGCATGTGAGAAAACCTGCAAGCCAGCATTAC
CCCTGGGACCATTCTGATCATCCTCACTGGATGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGCTAG
TGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATTGAGTTCCCTCTACGAGGAACACACCAGAAATTTGTCAT
TGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAAGCA
GCAGCTGCGGAAGCCCAGACACCAGGAAGGCAACATCTTCGACACAGAAAAAGAGAAATATGAGATTACAGAGCA
GCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACCAAAAGTCAAAGCTATTTCTCAGCTCCAGGGCTA
CCTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACCTAA
TTAAATAGCTAAGTAC

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FIGURE 2281A

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCAGGCTTTGGCCTCTAGTGGATGAGAATCACCGA
GTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGGGCGGGAGCTGTGCGGCCAGGGTTTCGCGCG
GGCCGGGTAGAGGCTCGAGCCGGGACCCCGAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAG
GCGGGAGGTGGTGGCGGAGGCGAAGGGGCGACGGGACCTGGGCTGGCCCGTGTGTCTCGGCGGCCTGGCGC
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCG
TAGGCCCGCCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACGGGAGGGGACTTCGCGAGCAGACGC
GCGCGCCAGCGACAGCAGCCCCCGGCCCTCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGC
CAGTGTCAATTCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGGCAACATCTTGTACTT
CGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTCCCATTAACAAGATATGATATCACCAAGCCA
AACGTATCATTAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCA
GCCCTTCACATCCTCAGCCGAAGATCTCACTTCCTCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAAATCGGTTTGTAAACACCTAGAAGACGCTATCCGATCCATCAGGCCAGTATTCTGTCTGGGG
GTACTTCCACCGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGT
AGCCAGTGACTGTGAGGATCGCCCTCCTGACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGC
TCAACACTGTCTCACCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAAATATTCCTTGATGGCCAGGAAAATAAAGAAGGCGCCAT
GATAGCAGTGGCAGTGGACATTCAGCATTGAGCCCCCTGGTGGCCAATGGAGTCCCCGCTTCTTTTGTGCCTAAG
CCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCC
ATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACAGTTCTTACAGC
TCCACTCGAGGCATCTCACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCAGCCTCCTCC
CGTCCCGAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGTCACTATTCCAGTTCTTCAACT
CCATTGGCAGCAGACAGGGAGTCCCGAGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAACTCGAAT
TCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAGCGGAAAGTTAGCTGCTGCCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCCTCCACCTCCCAGCTTGCGTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCCTTGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTATC
ACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCCACCCACCTCCCTCTGCCCCAAGC
ACCAACCCACTGTGTAGAGAGCTTGAAGAAGATGCAGACTCCCCGAGCCTGCCACCTGCCCAGAATCTGCTGGA
GCAGCAACCACTGAGGCCCTCTCACCTCCAAGACACCCAGCCTCTACCCCGCTGGGTTTATCACAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCTCCTTTGACTCCAAACCCCGACCACTTTGCTGGGGCTGATCCCTGCTCCA
TCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTTCAGGCAGAGACGGCTACCAACCCCAAGCCACA
TCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCC
CCTGTGCTCATCTTCAGCACCTCCCATGTTCAAGCCATTTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
ACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACACGACCCACAGCC
CCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCCCTGCTCCCTTCTTCAAGCAG
ACAACACTCTCCCGCCACTGTCTCCACCACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCAGACGACGACCGCCACTGCCGCTCAGACCTTTCCCTCTTCGGGGCGCCCCAG
GCCTCTGCTGCCAGCTTCACCCCGCCATGGGCTCCATATTCAGTTTGGCAAACCTCCTGCCTTGCCACAACC
ACCACAGTCACCACTTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCTGCCGACTTT
AGTGGTTTTTGGCAGACCCCTCGCCACCTCCGCCCGGCCACCAAGCAGCCAGCCACTCTGACGTTTCAAGCAG
AGCACCCCAAGTTCAACATTCCCTTTGGCTCAAGCGCCAGTCCCGCTCCCATCATATCCGGGAGCCAACCCC
CAGCCCGCAATTGGGGCCGCTGAGGGGCGAGCCAGCGGGGCGCCAAAGCCGGCCCTTGCCCCAGCTTTGGCAGC
TCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGTCTGTG
CCTGCGTACGTGCCTACGCCATCCATCTTCTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACG
GCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCTTTGGCGGCTCCACTGCTGTCTTCTTCGGTGCAGCC
ACCAGCTCCGGCTTTGGAGCCACCAACCCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACA
CCATCACCTTCACGTTTGGGGGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA

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FIGURE 2281B

GGCTCCAGCACCACCACCGAGCTTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTC
GCAGGGGGCTTAGGTGAGAACGCCCTTGGGCACCACCGGCCAGAGCACACCGTTTGCTTCAACGTGAGCAGCACA
ACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGC
ACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTGACCTTTTCGGC
AACACTTTTGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAAACGCAAACCTGCTGCCT
GCGGTGAGGGCCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCCTTTCCACAGGAAGGAGTGAGCCCGGAGC
CTCTGCTATGTGCAAGGCGGTGTGCAAGCACCGGCTGCAGCTTTTGTCTCTCTTTCTCTTTGGGGCTGGGCT
GGGTGTGCGTCTGCTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCAGCTCGGCATCTCGACCCGTTCAATTACAGCAACGAAGA
AGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGT
GGGGCCGGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTACCC
CATCCCCCTCCACGACCCTGGCGCACGCCCTGTACCTGAAGGCGCCCGGTTCTGCTGCAGCGCATCTGTAC
CATGTCTTCACTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGC
GTGGCACAGGGCTCGCTGCTGGAACCCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGCTC
CTCCAGCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCTG
AAATCCTCGCTCCTGAAATCCTCGCTTCACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCCATTAAGTGTC
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGTGTGGACCTCTGAGTCCCTCAGCCACGCCTTCTCAC
CATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGCGGATCTAAGGGGA
GACCGCCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAGCCAGCCAGGCAGCAGCGTGGCCATGGATGC
CAGCCGCTGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
ATGGAGCAGCTAAGGECCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATT
GAAACAGCCTATATTTAAAGGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATC
CACATCTCACACCTGCAGTGGGGAAGCTTAGCTTGGGGCAAATACCGTGAACACTTTTGGTGCAGCAGGAAAGA
GTTAAGCGAAAGTCATCCTTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATCTCTCTCTCTC
CTCCTGTGGCACTCACCCCTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGCTGGGGTGGCACAGG
CATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAACACAG
GGGCCGGGTAAACAGAGACCCAGGCTAGGCCCTTCCCGTGCTACACATTCTTCCCTTTTCTATTCTCTTGGC
TACCCTGTCTGCAAGATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTCATGCAGATCTGTCTGGCGGGAAACAC
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCTTGAGGGCTCGTAAGTCATCGAGGCTGCCAGG
GAAGAACCATTTCATTCATTTCTGAATTTCTCCCTGCCAGGCCCTATTCAACGGTCCATTCATGCAACAAA
TGTTACCACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCA
AGCCAGACTTATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
GCCCCACTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCA
CAATTTAATAAATGTTAGCTATTCTGTGTAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGT
GGGGAAGTGAGAGCTGAGCTATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATT
CACTATAACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCATGCAGAAAAGGCCCTAGGGAGTACATGTCTCA
GTTTCAAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGT
CCAAGCAACATGGTAGGGCAGAAAGGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTT
CTCAGAGCCACCAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTG
TTGCTGGCAGCTGGTGACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
CCAAGAAAGGACTTAGCATGGCCGGGCGGGTGGTTTCATGCCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGG
CAGATCACCTGAGGTCAGGAGTTTGGAGACAGCCTGGCCAACATGGAGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG
ATTAGCCAGGCATGGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG
TGTAGAAAGGGAAGACATAAGAAATTCATTTGACCTGTACCTTGAACAATGGTTGGCTGAGATGCTGTTAAT
TTGTGACTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTG
TGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

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FIGURE 2282

GCCAGGGAGCACTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAA
GCGCTTCGTACCCAGCCAGCACTATGTACATGTTCTGGTGAAATGGCAGGACCTGTGCGGAGAAGGTGGTCTACC
GGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATC
CAGAGAACAGGATCATCCCCACCTCCCAGCTCCCAAGTGGTTTGACGGGCAGCGGGCCGCGAGAACCACCAGG
GCACACTTACCGAGTACTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGA
TCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGC
CCAAAGATGGCAAGAGTACCGCGACAGACATCACGGGCCCCATCATCTGCAGACGTACCGCGCCATTGCCAACT
ACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCTGAGAGAAGAGCGAGAGCG
GTTGGTGGTTCTGTGATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCCTGGACAGTCCTG
ACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCCATCAAGGCCTACACTGCTGTGGAGG
GGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTACAAGCTCCTGGACGGCTGGTGGGTCA
GGAAAGACGACGTACAGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCAAC
GCCAGATCAAGCGGGGGCGCGCCCCGAGGTCTCCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGCGA
AGCGCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGG
GACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCGCTCTAAACCGCAGCCGGCGGTGCCCC
CGCGGCCGAGCGCCGACCTCATCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAG
GCTGGAGCGCAGTCCCCAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCTGTATATACGTGTTCTATAGACCTG
GCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAAATGTTGCTTGGAG
TGGACCGAGGCTCTGCAGGAATGCAGGGAGGGCCGGGCTCCGCCCCAGGGTTATTTCTAAGTTGA

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FIGURE 2283

MYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHLPAKWFQDQRAAENHQGTLTEYCG
TLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMFKDGKSTATDITGP IILQTYRAIANYEKTSGSE
MALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLE
GEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPRRSSIRNVHSIHQSRKRLSQDAY
RRNSVRFLQQRRRQARPGFQSPGSPLEERQTQRSKPQPAVPPRPSADLILNRCSESTKRKLASAV

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FIGURE 2284

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCGGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGACAGC
GACTCGCTGCCCCGCGCGCGCAGCAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTC
AAAGGCCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCTTCGAGGGGCTGAGGCTGATGCGACCCGGAAG
CCGGAGGCCGTGGTCTTGAGGGGAACCTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCAAGCAGGCGGAAGGC
AGGTGGCGCCCGCGGAGCAATGGTGCACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGCGAGCTCCTGGACCTCAATTGCTTTTGTCCGACATCTCAGACACTCTCTTACCATG
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCGCCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCA
CAGCCGCCCATGCTTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTTCAGCAGTGGG
ACCCTGGGCCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGGACTCCAGCGCCTTCCTGAGTTCTGATTTCTCCTTCTGAAAGACCCCAAGCCC
CGGCTCCACCCCCCTCTGTACCCCCACCTCTGCTGCATTACCCTCCCCCTGCCAAGGTGCCAGGCTGGAGCCC
TGCCCCCACCTCCCTTCCCTCCCATGGCACCCACCTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCCCACCGTCCCTCTGCCCCAGGAGTGCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCCA
CAGTCTGTCCCCAGCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTCCGAGCCTGCCTTT
GGGCTTGCTTCTCCATGCCCAGAGGCAAGCCCCCGCUCATCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGAGGAG
ACAGTCCCTGAATTCCCTGCACATTCTTCCCCGACCCCGGCCCTTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTCCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCCTCAGCCGGGGCCGTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAG
AAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGGCCAGCCAGC
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGC
TTGCAGGAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAG
CTGCCCCCACAGGGGTACCCATCACACACCAGCGTTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGA
ACCCGTACGCTGCACAACCTGGAAGTTCTGGGTGTTACAGCATCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCC
GCTCTCCGGCCAACCTGTCTGAACCTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCAGCCGGGCGCG
ATCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCCCTGGCAAACCTTTATAGTCCTGGCCAGACCCTGCT
GCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTG
CCCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGT
CAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGT
CTTTGGACCGCTGTGTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCGAGGCCTTGG
CAGCTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTG
TCACCTCCACTTGCTCCCCGACAGGTGGGGCAGACCTCTGTTCTTGAGCAGAGAAGCAGAAAGGAGGTTCCC
TCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCTGGGAGAGGCCAGGAGGGCCTGAT
CCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGGATGTGTGTGT
GTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTTAAAAAAAAAAAAAAAA

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FIGURE 2285

MAGALAGLAAGLQVPRVAPSPDSDDSDTSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLTRLFECLESLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRWYIQQYVKRRKSPVCGFVTPLQ
GPEADAHRRKPEAVVLEGNVWKRRIEVVMREYHKKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEPPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPPEPPSFSPVVDLSLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPPLP
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPTTAGSNN
PCLTQLLTAAPKEQALEPPLVSSTLLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPDSNKTENRRITHISAEQKRRFNKLGFDTLHGL
VSTLSAQPSLKVSKATTLOKTAEYILMLQOERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPITHQRFDQM
RDMFDDYVRTRLHNWKFVFSILIRPLFESFNGMVSTASVHTLRQTSLAWLDQYCSLPALRPTVLNSLRQLGTS
TSILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2286

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAAGTCCCGCGGGTTCGCGCCAGCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGGCTTGTCCGCTCGCAGGTCACTTATGGTGTCTGTCGCCGCACAGC
GACTCGCTGCCCCGCGCGCGACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGGAGAATTTT
AAAGGCTCAAGCTGCTCTGCAGAGACAAGATCCGCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCCTGAGGCTGATGCGCACCCGAAG
CCGGAGGCCGTGGTCTGGAGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTATGCGGGAATACCAACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCCGCGCGCGGAGCAATGGTGAAACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTGTCCGACATCTCAGACACTCTCTTACCATG
ACTCAGTCCGGCCCTTCGCCCTGCAGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCTCCCA
CAGCCGCCCATGCCTTCAAACCTTCCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGGACTCCAGCGCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCAACCCCTCTGTACCCCCACCTCTGCTGCATTACCTTCCCCCTGCCAAGGTGCCAGGCTGGAGCCC
TGCCCCCACCTCCCTTCCCTCCCATGGCACCCACCTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCCCACCGTCCCTTCTGCCCCAGGAGTGCTCTCGCTGCCTGCTCCTGCAGCCTTCCCACCCACCCCA
CAGTCTGTCCCCAGCCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTTCGGAGCCTGCCITT
GGGCTTGCTTCTCCATGCCCCAGAGGCAAGCCCCCGCCCCATCCCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGAGGAG
ACAGTCCCTGAATTCCCTGCACATTCTTCCCCGACCCCGGCCCTTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGTCCCCAAGCGGAGCGGCTCTCACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCTCAGCGGGGCGGTCCAGACAGCAACAAGAACCGGCTATCACACACATCTCCGCGGAGCAGAAGCGG
CGTTCAACATCAAGCTGGGGTTTGACACCTTTCATGGGCTCGTGAGCACACTCAGTGGCCAGCCAGCCTCAAG
GTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGCTTGCA
GAGGAGGCCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAGCTGCCC
GCCACAGGGGTACCCATCACACACCAGCGTTTGTACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGT
ACGCTGCACAACTGGAAGTTCTGGGTGTTTACGATCCTCATCCGGCCTCTGTTTGAGTCTTCAACGGGATGGTG
TCCACGGCAAGTGTGCACACCTCCGCCAGACCTCACTGGCCTGGCTGGACCACTACTGCTCTCTGCCCGCTCTC
CGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGATCCCT
GAGCAAGCCACACGGGCAGTCAAGAGGGCACCTTGGCAAACCTTTATAGTCTCTGGCCAGACCCTGCTGCTCAC
TCAGTGGCCTGGGGGCTGCTTTCCCTGGGCACGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTGCCCCAG
GCCCTGGCTCTGCCCTTCCCTGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGTCAAGAA
GAGCAGAGTCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCCTGACCTTGGGTGACTCGTCCGCTGTCTTTGG
ACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTG
TGACATTGGGGGCTAGGCTGGCAACTCCGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTGTACCT
CCACTTGCTCCCGACAGGTGGGGCACAGACCTCTGTTCTTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTC
TGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTCCCCCTGGGAGAGGCCAGGAGGCCTGATCCCAGG
AGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGT
TTTGTAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTTAAAAAAAAAAAAA

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FIGURE 2287

MAGALAGLAAGLQVPRVAPSPDSDSDTSEDPSLRRSAGGLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLIRLFECLESLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRWYIQQYVKRRKSPVCGFVTPLQ
GPEADAHKPEAVVLEGNVWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEPPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPPEPPSFSFVVDSLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPPLP
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNN
PCLTQLLTAAKPEQALEPPLVSSILLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPD SNKNRRITHISAEQKRRFNIKLGFDTLHGLVS
TLSAQPSLVSKATTLOKTAEYILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPITHQRFDQMRD
MFDDYVRTRTLHNWKFVFSILIRPLFESFNGMVSTASVHTLRQTS LAWLDQYCSLPALRPTVLNSLRQLGTSTS
ILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2288

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGTCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTCAAGAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT
GGGATTCGCGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCG
ACCGGCGAACAGGCCCCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCCTCCGTGGATCCAACATGGATTTC
GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCCCTCA
ATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCATAGAGAGGAAGTCGTTCAAAAGGAGCAAG
AATGAGCCTGCGGTTGGGAGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCGAG
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
GCTGTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTTTCT
TTCTTCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCAGCAGCACATGGGGTTC
CTCGGAGGAGCAGAGGTGGCCGCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTC
TTTACTTTTAGACTGGCCCACTCCAGGCGTTTCTTTTCTTCCCTCAGTGCTTCTCTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTGGTATT
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTAGGATAAAAATATCTGCAGGGTCTTTTC
CATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA
GAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACCTGTGTGTGTGCCAGCTAGTTCACTCCTTTGCGCGTGGTGGAGGCTGGCCTCTCTGGCT
GGGTGCAGTGAATGGCCAGCGGGTTCTTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGTGGTGTGGT
GCTGCCTGGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCCTGTGTGTGTGTGGATCTGT
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG
ACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTTCAGCAGTTA
TGTGGGAGTGCTAGGGGTAGGCTTTGAGCTTGAACGCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA
AGTCCCAGTCTGTCTATGGGAGCAGTTTGGGGCGGCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTGGTCACCAGCCGTCATCCTGGG
CTTTTCTACTGTGTCTTGTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCCCTTCCACCTGTCTCAGCTT
CTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTTCAGAAAGACATGCATTATGTGGTGTA
TCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAACACTTAACACATTACGCTATATGAC
AGAAAGTAAATCTATGGATATGGTATTTGTGAATGATCTTTTAAATAAAAGAAAACCTTACGTAATATTT

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FIGURE 2289

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGMGSSRESRGGWDS
RDDFNSGFRDDFLGGRGGSRPGDRTGPPMGSRF RDGPPLRGSNMDFREPTEEERAQRPRQLKPRTVATPLNQV
ANPNSAIFGGARPREEVVQKEQE

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FIGURE 2290

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGGCGGAGAGGGTCCCCGG
GCAGTGTCTGGTGGCCATGGTTCCTAGCCAGAGAGGAGTTGCCACAGAGCCCCCTACACAGCATACTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCCTCCGTGGAT
CCAACATGGATTTCAGAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCACTCTGCTATCTTCGGGGGTGCCAGGCTTAGAGAGGAAGTCG
TTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGCTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCAGCGGAAACACAGCT
TGTGAGTGCATGTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTGCGTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGCTTTTTCTCCTGCTCCTTGTTTTTCCAG
CAGCACATGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTTGGGGGGCGTGTGGGCTGCGGTGCTGCGTCATT
TTCCTTTGCTTTCTCTTTACTTTAGACACTGGCCCACTCCAGGCGTTTCTTTTCACTCCCTCAGTGCCTTCTCT
CTGACCTGCATGTTGAGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGTGTTGATTTCAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTTAGGATAAAAATAT
CTGAGGGTTCCTTTCCATTCTATTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGCATGCATTACACGTGTGTGTGCCAGCTAGTTCCTCTTCGCCGTGCGTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTCTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA
GGGGGTGGTGTGCTGGTGCCTGACTGGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCCTGTGT
GTTGTGTGGATCTGTTCTTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCCTTTGATAAATTGTAATGTAATGTAATGTAATGTAATGTAAT
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGACACACTGGACTGTTCCTATGTGC
AGGGTTTCAGCAGTTATGTGGGAGTGTAGGGGTTAGGCTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAA
ATCCTTCAGTACCCAAGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGCGCCGAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCAAC
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTACAAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCT
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTTCAGAAAAGACATG
CATTATGTGGTGTAAATCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCAAACACTTAACAC
ATTCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2291

MADFDTYDDRAYSSFGGGRSGRSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGRDDFLGGRGGSR
PGDRRTGPPMGSRFRDGPPLRGSNMDFREPTEEERAQRRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQE

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FIGURE 2292

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTGA
CCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTGAAAAATATAGGCC
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT
GCCCCAACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGCCCTGCT
GGGCCCAGCACTCAAAGATGCCATGTTGGAATCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA
AATTAATGTTTGCTCAACAAAAAGTCACTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGA
CAGCATGACCGACGGAGCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCT
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA
AGCCATCATCTTCACGGCCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGG
CTTCATTAAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTCGAGTGTGTAAACTTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA
AATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAATCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCT
GTGTCAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG
AGGTACAGGAGCCGCGGCTTTCTGATGGGGGAAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC
TGAGGTCAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCTGTCTTTACTAAAAATATAAAAAATTAGCTG
GGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTG
GAGGTTGCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAAATT
AAATAAATAAACTCCCG

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FIGURE 2293

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCGCCCTCCGCCGC
AGCCCGCGCCGGGGTGGGGGCGCCGAGCGCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCTTGGCCGCGGGCCGGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAACTCCGCGTTACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGTCTCAGCG
CTGTCCAACTGAACGCCGAGGTGGCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCCGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGAGGGCCCCCGTGGGAAG
GATCCGGAGGCAGAGCACCCCAAGAGGTGCAGCGGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTGATGTTCTTTATAGCGAGGCCCTG
GGAAGGGCCAGTGTGGTGGCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCTGCATGGCCAGGCCCCCAAGGTGCCACCCACAGGACCTG
CCCCCAACCGCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACCACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGGCCCCAGCGACCTGGGCCTGAGTCCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCGTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCTTCAAGCGCCCTGCACTTATGGAGTCCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC
CACTTCATCATTAAAGAGGATGTTTGTATGAGCGAATTTTACAGGGAACAAGTTTACCAAAGACACCACGAAGCTG
GAGCCAGCCAGCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCGTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGGAGGAGAGGCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGAGGAGCTGTTTGTGTGGGACTGCCTGAAGGCATCTCCCTCCGAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAAGTGCCTCCTCACTTGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCGGAAGCCCTGTACCTTCGGCTCCCAAGACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACCAGGCCCTTCCAAAGGACTCATCCCAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAAGTCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGTGCTGGTCCCTTATAAACTAATCCGGGACAGCCAGACGCCGTGGAGGTACGGGTCTGCCT
GATGACATCCCTTCCGGAACCCCAACAGTACGACATCCACGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
GTCCGATGGTTCATTAACAGCTCAACCCCTTTGCAGAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATTCCGTCTCCTCTTCTCCTCGTCTTCTCT
TCCTCGTCTCTAACCCGATTTCAGTGGCATCGGCCAACAGATCTCACTCGTGCAATGGCCAAATGTACATGGTG
GACTATGCCGGCTGAACGTGACGCTCCCGGGACCTTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTCC
AATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTAAATAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2294

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSVSLDSMCSALSKLNAEVACVAVHDESAFVVGTEKGRMFLN
ARKELQSDFLRFCRGPPWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPLEDGGGRDSKALVELNGVSLIPK
GSRDCGLHGQAPKVPPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINTLRECVQILFNSRYAEALGLDHMPV
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLRILEERHSIHFIKRMFDERIFTGNKFTKDTTKLEPASPP
EDTSAEVSRATVLDLAGNARSDKGSMSEDCGPGTSGELGGLRPIKIEPEDLDIIQVTPDPSPPTSEEMTDSMPGH
LPSEDSGYGMEMLTDKGLSEDARPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE
LFVVGLEPEGISLRRPNCFGIAKLRKILEASNSIQFVIKRPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG
DPLVDESLKRQGFQENYDARLSRIDIANLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGI
PFRKPCTFGSQNLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVPKDS SIPKR
KRKRVS EGN SVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY

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FIGURE 2295A

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTCGCCCCCGCTTCCCCGCAC
GCGCTCTCCAGCCGCGGCCGCCCGCTGCCGCGGTACCCCGGCCCTCTGCCTCTGTCCCCAGTGATCGGATCAA
GGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCT
CGCCCCCTCTCGCTCCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGACGCCCGCGG
CGGCCACACTCGCTCCCTCGGCACCCCCGCGCCCGGAGCTGCCTGGAGGCGGCCGCACTCGGGGATCATGSC
CCAAGTTGCAATGTCCACCCCTCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGACATTCTCAT
GTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAC
AGACGTGTTTTGCTGCGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAGCTGCAGAGATGCATAAAATGAAATCTACAACCCAGGCAAATCGGAT
GAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGAGGACTATTTCTGCTTTTGCTATGGGAAAGC
TTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGCAGGG
GCTTCCGGAAGGTGTTGCCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCCCTGAAATGGATTTTGAGAAACA
AGCAGGGATTTTCAATCATCATTAAAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGGTTCGTGTGATGGTAAC
AGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCCCATCAAAGTGAAACTGAACCCACAGAAGA
TTCTGGCATTTCCTTGGAATGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAA
CATTCAAGCAGGCCCTTCTGAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCCTTCAGA
AACAAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGATTATCTCCACCGTCTAAGAGACCAAAGGC
CAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGA
GAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTCCAGTCTCATGTTGAAGATCTTATGTAGAAGGACT
TCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCCTCGCTGGAGAGGATATTACTTGCAAAGGA
AAGGATTCGTTTTGTGATTAAGAAACATGAGCTTCTGAATTCACACGTGAAGATTTACAGCTTGATAAGCCAGC
TTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACACCCGAATGATCT
GTACGTGGAAGGACTGCCAGAAACATTCCCTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAAT
CATTCAAGTGGGCAATCGAATTAAATTTGTTATTAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTAC
TCAGCCAAGAACGAATACACCACTCAAGGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
GATTTTTAATTTGAAATTTGCTCAAGCTCTTGACTACCCGAGGCAGTAAAGTACCATATCCTGTGTTTGAATC
AAACCCGGAGTTCTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGGAATTCC
ACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTCTGTTGTTAAAAAACCTGAACTAGTTATTTCCCTA
CTTGCTCTGGGATGGCTAGTAAATAAACTAAAGCTTTGCAGTCCCCAAAAGACCAGCAAGTCCCTGGGAG
TAATTCAAAGTTCTCGAAATTGAGGTACCCGTGGAAGGCCCTAATAACAACAATCCTCAAACCTCAGCTGTTTCG
AACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTTTCTTTGAGGCCTGGAA
TGCCAAAATCACGGACCTAAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGAAGCTCTTGCCCTTAA
ACAAGCTGTGAAGGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAATTA
GTTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAA
AATAAATTCATCACCAATGTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTC
AGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTAG
TCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCTGG
CTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGCCCCAGCTACCTGGAAATCAGCTCCATGAG
AAGGATCTTAGACTCTGCCGAGTTTATCAAATTCAGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCA
GCTGGTTGATCAGAGTGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGGTAGACCTCTTC
CCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTTACTACCCCAAGCTGTGTAATATACT
TGTATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTC
TGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA

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FIGURE 2295B

GCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTATGTACTCAGCAGAGCCTTG
AGTTACGGTGTTTTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCTACTGGAACATCTCAGCTTCTGCAGT
GAAGAAAAATTCCTGTGATAGTTCAGTTCCTTAGTTTTCTATTTGAAAAAAAAAATCATTAAATGATCCTT
GTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCCTAAGCTATCT
CTCATGTTCTATGTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTCAGAGGTCAGTAT
CTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTCCACTTTTACTTTTCGTCCAAATAAAATGCATG
GTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGACACTAAGGCCCCAACATCGCGGGACC
TGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGGTGGCCGGCATTATTT
CTAGTTCTTCTTGTAAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTCAGGGGGCTAAGGATGCAACCTCTG
ACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTACAAGCAATGCGAGTTGTAATAATACCAGCT
CTACAAGAAGCTAGGCTCTGTGACGGCATAAGTTTTAGTAGCTTTATCACAATATTCACAATGGAGAATTATATG
ACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAATA
AAATCCATCCATGCCTTTCACACACTAAAAAGTCGGA

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FIGURE 2296

MAQVAMSTLPVEDEESSESRMVVTFILMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAFVNTRKDFQKD
FVKYCVEEEEKAAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYGKALGKSTVVPVPEKMLRDQSAVVV
QGLPBGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHVGGGRVMVTDADRSILSPGGSCGPIKVKTEPT
EDSGISLEMAAVTVKEESEDPDYYQYNIQAGPSETDDVDEKQPLSKPLQGSNHSSEGNEGTEMEVPAEDSTQHVP
SETSEDPEVEVTIEDDDYSPPSKRPKANLPQPPVPEPANAGKRKREFNFEEKWNARITDLRKQVEELFERKYAQ
AIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRPSTYGIPRLERILLAKERIRFVIKKHELLNSTREDLQLDK
PASGVKEEWYARITKLRKMVDQLFCKKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLE
KIIQVGNRIKFVIKRPPELLTHSTTEVTQPRNTNPKEDWNVRITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVF
ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKPELVISYLPFGMASKINTKALQSPKRPRSP
GSNSKVPEIEVTVEGPNNNNPQTSVRTPTQTNGSNVPFKPRGREFSFEAWNAKITDLKQKVENLNFNEKCGEALG
LKQAVKVPFALFESFPEDFYVEGLPEGVPFRPSTFGIPRLEKILRNKAKIKFIKKPEMFETAIKESTSSKSPP
RKINSSPNVNTTASGVEDLNIIQVTIPDDDNERLSKVEKARQLREQVNDLFSRKFGAIGMGFPVKVPYRKITIN
PGCVVVDGMPPGVSFKAPSYLEISSMRRIILDSAEFIKFTVIRPFPGLVINNLVDQSESEGPVIOESAEPQLEV
PATEEIKETDGSSQIKQEPDPTW

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FIGURE 2297

GCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGGCCACCCAGTCAATGG
GGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAGCACTATGTGTACA
TGTTCCCTGGTGAAATGGCAGGACCTGTCTGGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGATTCCATA
AAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAG
CTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGGCACACTTACCGAGTACTGCGGCACGCTCA
TGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTTCTTCAAGGTGCGCCCTGATGACCTCAAGC
TCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACA
TCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTC
TGTCACGGGGGACGTGGTGAGGTTCGTAGAGAAGAGCGAGAGCGGTTCAGACCTCCACCTTACGGGGCTCCTTC
CCCTGGTGCTCAGGAACCCACAGCCACAAGCCCCCTGCCAAGGCTCAGGCAGCCTTGCCCCCTGGGAGGACTCCGG
CTCTGTTAGGGGCCCTAAATGTCCTCCCCACACTGTGGGTTCGCTTCTGTCTTAGTGTGCACCTGTGGTGGCTG
TGGGCATCTGTGCTTGGCAGGCCGGGGCGGGGCATGTCTGCGTGTCTGTCTGGATGGGTATGGGACCGTCTGTT
CATTATGAAGTGGGCTCAGAGCTGTGATTCTGTGAGCATGTGTGCATGCATGCATGTGACCTCATTGTCCGGTGT
GGTGAAGGTGACATTTCCAAATCTGAGCATTGGACATCAGTGTGTCTGTGTCCCTGTGTCTCACCATCCCTGAT
GGCTGCAGGGAGCCGCTGGGCCCTGCCCCTCAGTCACATTCCCGCACCTCTGGCACAGGTTGGTGGTTCTGTGACG
ATGAAAGCAAAGCGAGGCTGGATCCAGCGTCCTTCCTCGAGCCCCTGGACAGTCTCTGACGAGACGGAAGACCCT
G

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FIGURE 2298

MGDTFIRHIALLGFEKRFVPSQHYVYVFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHL
PAPKWFDGQRAAENRQGTLECYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKD GKSTAT
DITGPIILQTYRAIANYEKTSGSEMALSTGDVVEVVEKSESGQTSHLTGLLPLVLRNPQPAPCQGSGLAPGRT
PALLGALNVLP TLWVAFCLSVHPVAVGICAWQAGAGHVCVFC LDGYGTVC SL

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FIGURE 2299A

GAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCGTAGGCCCGGCCCGGGCCC
CTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCGCCAGCGACAGCAG
CCCCCCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAGGAGGGGGCCAGTGTCAATTCAAAGATG
TGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGT
TGGAGAACTACAGCCATCTAGTTTCCTTGGCTTATGAGGTGGCAACATCTTGTACTTCGGAGATTCTGAAGCCGA
GCAACTTGCCCAAGTCCTTCTTTTCCCATTAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTT
GGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCCCTCACATCCTCAG
CCGAAGATCTCACTTCGTCCCAGAGGCCTTGTCTGACTGACCCCTCAGGGATCGTGGGACTTTACCAGATCGGTT
TGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCCCTGTCCGGGGGTACTTCCCACAGTGTG
CTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGAAGTGTGAG
GATCGCCCCCTCTGACAGAAGATTTTACGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTGCTCACC
ATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCTCAAAGAGAAGAAGAAGAAAAGGAC
AGTGGAGGAAGAAGACCAATATTCTTGTATGGCCAGGAAAATAAAGAAGGCGCCATGATAGCAGTGGCAGTGG
ACATTACAGCATTTGAGCCCTGGTGGCCAGTGGAGTCCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAG
AGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGG
CGCTTACACAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCCCTACAGCTCCACTCGAGGCATCTC
ACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCCCTTCTTAGCCAGCCTCATCCCGCTCCCAGACACCGGA
GAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTATCATTCCAGTTCTTCAACTCCATTGGCAGCAGACAA
GGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCTGG
CAGCTCTGGGCAGCGTAAGCGGAAAGTTACGTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACC
TCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAGTGGTTCAACCA
GGCCTTGGAGGACAAGAGTGATGCTGCCTCGAAGCTGTGCTGAGACCCCACTACCACTCAGCCTTCATTTAC
CTTIACCCTGCCTGCTGCTGCAACTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCACCCACTGTTAGA
GAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCCAGAATCTGCTGGAGCAGCAACCACTGAGGC
CCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGGCCGCCAGGGCTGCTCCC
CAGCCCCCTCCTTTGACTCCAAACCCCGACCACTTGTGTTGGGCTGATCCCTGCTCCATCCATGGTACCAGCCAC
TGACACCAAGGCACCTCCAACCTTCAAGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGC
CCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGC
ATCTCCCATGTTCAAGCCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCAACCCGCTGGCCCTTC
AGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAAGCACCACAGCCCCGACCTTCCAGCCTGT
CTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCAC
TGCTCCCAACACAAGTCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCATCACCTCTGC
CAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGAG
TACCACGACCAGCACCAGCCACTGCCGCCTCACAGCCTTTCCTCTTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTT
CACCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCACAACCACCAAGTCAACACCTT
CAGCCAGTCCCTGCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTGTAGTGGTTTTGGCAGCAC
CCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCAAGTAAACAGAGCAACCCACGTTCAA
CATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCCCAAGCCGCAATTTGGGGC
CGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCCAGCCCTTACCCCAAGCTTTGGCAGCTCTTTCACTTTTGGAAA
CTCTGACCCCCGGCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGTGCTGCGCACGT
GCCTACGCCCCATCCAGCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAGCAGCGCTTCCGCTT
CGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCCTTCGGTGCAGCCACCAAGCTC
CGGCTTTGGAGCCACCACCCAGACCGCCAGCAGCGGAGCAGCTCGGTGTTTGGCAGCACAAACCATCACC
CTTACGTTTGGGGGTTTCGGCAGCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAG
CGCCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTCCAGGGGG
CTTAGGTCAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGGGCAGCACAACTGAGAG
CAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGG
CAGCAGCCTCTCCTTTGGGGCATCTTACGACCCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGCAACACTTT

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FIGURE 2299B

TGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAATGCAAACCTGCTGCCTGCGGTGAG
GGCCAGGGTCTCTCCACGGAGAGGACAGGCATCTTCTTTCCACAGGAAGGAGTCAGCCTGGAGCCTCTGCTA
TGTGCAAGGCGGTGTGCAAGCACCGGCTGCGGCTCTTTGCTGTCTCTTTCTCTTTGGGGCTGGGCTGGGTGT
GCGTTCTGGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAGTGTAGATGTTAGATGTGCCAGTACCATCC
TGCGCCTCCCAAGCATGCCCCACTCACTCACGTGCGCATCTCGACCCGTTCAATTACAGCAACGAAGAAGCCAC
CGCTAAGCGTGGTCTTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCC
GGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTACCCCCATCCC
CCCCCTCCACGACCTTGGCGCCCGCCCTGTACCTGAAGGCGCCCGGGTCTGCTGCAGCGCATCTGGTACCATGT
CTTCATTCTCTCTCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGCGTGSC
ACAGGGCTCGCTGCTGGAACCCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGATCCTCCA
GCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCTGAAATC
CTCGCTCCTGAAATCCTTGCCCTACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTGAGAACT
AAGACCAAAACAGATGACTCCAGGTCTAAGCTGTGTGGACCTCCGAGTCCCTCAGCCACGCCTTCTCACCATCT
CACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGGGATCTAAGGGGGAGACCG
CCAGGAAGTCTCTCTCAGCCAGCTCACAGCAGGAGACGCCAACCCAGGCCAGCAGCGTGGCCATGGATGCCAGCC
GCTTGCGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGCACGGA
GCAUGCTAAGGGCTGTGCACAGCTGACACAGACAACAGAACATGCAGGTAAAGCAGGACACACAAATATTGAAAC
GGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCTGGGGTCTCTGCCCCAAGGGCTAAGGGATCCACAT
CTCACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAATACTTTGGTACAGCAGGAAAGAGTTAA
GCGAAAGTCATCCTTTTACGCCCTTTATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCTCTCTCTCT
CCTGTGCACTCACCTTGGTTCTTTCAGAAGAGCAGCCAAGTACTGGTCTTATTGCCTGGGGCGGCACAGGCAT
CGATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAGCACAGGGG
CCGGGTAAACAGAGACCCAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCCTAC
CCTGTCTCTGCAGAAATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTCATGCAGATCTGTCTGGGCGGGAAACACCAG
CAGCTCCGGCATCAAGGAGTCCAGGAGAAAATGCTTCCCTTGAGGGCTTGTAAAGTCATCAAGGCTGCCAGGGAA
GAACCATTCATTCTTTCTGAATTTCTCCCTGCCAGGCCCTATTTCACGGTCCATTTCATGCAACAAATGTTAC
CACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTGTCAAGCCAG
ACTGATGGGTTCAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAAGCCCCA
CTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCAAGATACTTACGTGCCACAATTT
AATAAATGTTAGCTATTCTCTGTTGAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGTGGGGAA
GTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTAT
AACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGAGAGTCACATGTCTCAGTTTCAG
AAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGTCCAAGC
AACATGGTAGGGCAGAAAGGAAGAGGATCTTACAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGA
GCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTG
GCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAGCCAAGA
AAGACTTAGCATGGCCGGGCGCGGTGGTTTCATGCCTGTAATCCACGATTTTGGGAGGCCAAGGTGGGCAGATC
ACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAATTAGC
CAGGCATGGTGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGA
AAGGGAAGACATAAGAAATTCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAATTTGTGA
CTTTGCCCAAATTTGAGCTCACAAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTGTGCAGG
ACATGCCCTGTTAATAAAAACGTTTACAAGC

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FIGURE 2300A

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACAGCCAGAACGTGCATACTGGGCAC
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTGAAGGACTCTCTGAGATA
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGA
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT
GGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC
AGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTATCTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCCACTCCTGCCTCCCAGCTGACACCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC
AAAGTTGAAAGATCTGTTTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTAGATCCCCCAGCTGCC
TGAGAACCCACCCAACTTCTGCGAGCCTCAGCCCTGTGAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA
GGCTCATCCCCGACAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT
ATTTGACAACAAGTTTGATGACATCTTTGGCAGTTTATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAATGG
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA
AAACATGAAGACTGAGAGCCAGCGGGTGTGCTGCAGCTGAAGGGCCACGTCAGCGAGCTGGAAGCAGATCTGGC
CGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCG
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTGAGAACCACGCTGACCTGGTGCGGAAGAATGCAGAGGT
GACCAAAACAGGTGTCTATGGCCAGACAAGCCCAGGTAGATTTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTT
GGAGCGCATCAGTGACCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAT
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACTTCTGCCAGTCAGAAGCAAACCTGGGC
AGCCGAGTTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTATC
TGCTCTTCGGAAGAAGTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAA
AGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCAGAAGACATCAGTGGACTTCTCCATTCCAT
AACCCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC
TGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA
GGGAAGCCTTGAGAAATGCCGACAGCACAGCCATGAGGAAGTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCT
CCTGCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACTTCAGC
TGCTATTGAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAATCCCGAGCAGGAGACACAGGAGTCAAATT
GGAGGTGAATGAAAGGATCCTTGTTGCTGTACCAGCCTCATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAAGCTCTCG
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTATGGTGGATGCAGCTGATCT
GGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCT
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCAATTTCCGGCAAATCACAGATCGAAGAGACAGACAACATGGA
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTAGGGTGCTAGAGCTAGAAAA
TGAATTGCAGAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGG
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
CACCCCATATGTAGTAAATCCTTGTTACCTATCTCGTGTGTTATTTCCCGCCACAGGCCAAATCCTTG
GAGTCCCAGGGGACGCCACCACTGCCATTACCCAGTGCCGAGGACATGCATGCACTTCCAAAGACTCCCTCC
ATAGCGACACCCCTTTCTGTTGGACCCATGGTTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTG
GCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
ACATCCAGTCTGCTGCTATTTGACCCCAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTTGTTGTTG
ACAGCTTGAAAGGGGAAGATCTTATGCCTTTTCTTTTCTGTTTCTTCTCAGTCTTTTCAGTTTCATCATTTGCA
CAAATTTGTGAGCATCAGAGGGCTGATGGATTCCAAACAGGACACTACCCTGAGATCTGCACAGTCAGAAGGAC
GGCAGGAGTGTCTGGCTGTGAATGCCAAAGCCATTCTCCCCCTCTTTGGGCAGTGCCATGGATTTCCACTGCTT

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FIGURE 2300B

CTTATGGTGGTTGGTTGGGTTTTTTGGTTTTGTTTTTTTTTTAAGTTTCACTCACATAGCCAACTCTCCCAAAG
GGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTAGCTCCAGCGATGGTGCTGCCAGGCCTCTC
GGTGCTCCATCTCCGCCTCCACACTGACCAAGTGTGGCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGC
TGAGTGACAGCTTTCTCTCAAAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGCGGAAAG
CCTCTGTCCGCCTTTACAAGGGGAGAAGACAACAGAAAAGAGGGACAGAGGGTTTACACAGCCCAGTTCCTCGTGAC
GAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGGAATGAAC
TGTCCGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGGCCAGAGACGGAGTGTGGGAGTGATTCCCAACTC
CTTTCTGCAGACGTCTGCCTTGGCATCTCTTGAATAGGAAGATCGTTCCACCTTCTACGCAATTGACAAACCCG
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCCTAGTATTTATTACTAAC
CTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAACTTCAGGTGTGACTCTAGCAAGGCTC
ATCTTTCTGCCCGCTACATCAGCCTTCAAGAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGAT
CCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTCAAGAAAATGAGAAAAGGACAGAGCCAGCGGCTCCAACTCC
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTCCAG
GGATGGGCAGCCCAACAGCACTTTTCTCTCTAGATGGACCCAGCATTTAAGTGACCTTCTGATCTTGGAAAA
ACAGCGTCTTCTCTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAAAC
GAATATTGCTAGGTTTTGCTACATGACGGGTGTGTGAGACTTCTGTTTGATCACTGTGAACCAACCCCCATCTCCC
TAGCCCAACCCCTCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAACTCTCTCCCAGGACC
TCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGGAAGTATCAGCACTAGAAAATTGGGCAGTCTT
AATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCCTGGCTTCCCTGTC
CCAGTTGTGGCACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTCCAAAAGTGGCTAGTCTCACTT
CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGTGGCCGGGCACAGTGGCTACGCCTGTAA
TCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTGAGGATCAAGACCAGCCTGTCCAACATGGT
GAAACCCCATCTCTACTAAAAATACCAAAAATTAGCCGAGCGTAGTGACGGGTGCCGTAATCCCAGCTACTCA
GGAGGCTGAGACAGGAGAATCACCTGAACCCAGAGGCAGAGGTTCAGTGAGCTGAGATCAGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGTA
ATGGATCAAAATTAAGATTCTCTGCCAGCCGGGCACAGTGGCGCATGCCGTGTAATCCCAGAACTTTGGGAGGCCA
AGACGGGATGATTGCTTGAGCTCAGGAGTTGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAA
TTCAAAAACAAAATTAGCCGGGCATGATGGTGCATGCCGTGATGCTCAGTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCACTCCGGCCTGGGTGACAGAGTG
AGACCCTGTCTCAAAAAAAAAAAGATTCTGTGTGAGAGCCAGCCAGGAGTTTGAGGCTGCAATGAGCCATGAT
TTCCCACTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAATTATCTGAATG
ATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTGAGATGTACATAATTACTTTC
GTAATAGCTCAGATTAGAATGGCTACCCATTCTCTAGACAAAATCAAATTGTCCTATTGTGACTCTTCTAAAAA
TGAAGATGAAGAGCTATTTAATGACACACCTTGGATTAAAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTG
CAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTTACTTAAAGTTTGTAAAG
ACAGTGCCCTGAGACCTTAGAGAAAAGATGTTTGTACATAAGAGAAAGAGGCCAGACATGGTGTCTCACACG
TTTAAATCCCAGCACTTTGGGAGGCAGGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAAC
ATGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCAGGCGCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

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FIGURE 2301

ATGGGGCGGGGCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGAACTGCCGCGAGGAG
GCGGAAGGAGCAGAGGACCGGCAGCCGGCGTTCGAGGCGGGGCGCGGGAACGACGGCGGCCATGGCGGCCCTCGGGG
CCCGGGTGTGCGAGCTGGTGTCTGTGCCGAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTG
GTTTCCGGGGCTCGCCTGTTCCCTGCTGCAGCAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTGTCTACGAGAATCCCATCTCCCTGCTCTGCGGCGCT
ATCATCATCTGGCGCTTTGCTGGCAATTTTCGAGAGAACCGTGGGCACCGTCCGCCACTGCTTCTTACCCTGATC
TTCGCCATCTTCTCCGCTATCATCTTCTGTGTCATTTCGAGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAG
GATGCCAGAGGTTTACCCCCAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTGTTGGCATGGTTGTGCCCTCAGTCCTGGTTCGGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCCAG
ACCTCTTTCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCCTATGGCCTCACCTACTGCTATTCCATCGAC
CTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGACCTTCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAG
TACGTCTCAGGGTCTTCAGCCGAGAGGAGGGCAGCCCAGAGCCGGAACCTGAACCCGGTGCCTGGCTCCTACCCC
ACACAGAGCTGCCACCCTCACCTGTCCCAAGCCACCCTGTGTCCAGACGCAGCACGCCAGTGGTCAGAAGCTG
GCCTCCTGGCCCTCCTGCACCCCCGGGCACATGCCACCTTGCCCTCCGTACCAGCCTGCCTCCGGCCTGTGCTAT
GTGCAGAACCACCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATC
CAGCCCCCAGCGCTGTGAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCC
AAGGAGTCCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTCCT
CCCTAAGAGTCTCCTGACAAAAGTTACTTATTGA

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FIGURE 2302

GTTTCATGATCAACATGGGAGACTCCACGTGGACACCAGCTCCACCGTGTCCGAGGCGGTGGCCGAAGAAGTAT
CTCTTTTCAGCATGACGGACATGATTCTGTTTTCGCTCATCGTGGGTCTCCTAACCTACTGGTTCCTCTTCAGAA
AGAAAAAGAAGAAGTCCCCGAGTTCACCAAAATTCAGACATTGACCTCCTCTGTCTCAGAGAGAGCAGCTTTGTGG
AAAAGATGAAGAAAACGGGGAGGAACATCATCGTGTTCTACGGCTCCAGACGGGGACTGCAGAGGAGTTTGCCA
ACCGCCTGTCCAAGGACGCCCCACCGCTACGGGATGCGAGGCATGTCTCAGCGGACCCTGAGGAGTATGACCTGGCCG
ACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCCA
CCGACAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTCGCGGTGT
TTGGTCTTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCG
GCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAACTTGGAGGAGGACTTCATCACCTGGCGAG
AGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGAAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACG
AGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGA
ACCAGAAGCCCCCTTTGATGCCAAGAATCCGTTCTGGCTGCAGTCACCACCAACCGGAAGCTGAACCAGGGAA
CCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAAATCAGGTATGAATCTGGGGACCACGTGG
CTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCTGCA
TGTCCTGAACAACCTGGATGAGGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCTACCGCACGGCCC
TCACCTACTACCTGGACATCACCAACCCGCGCGGTACCAACGTGTGTACGAGCTGGCGCAGTACGCCTCGGAGC
CCTCGGAGCAGGAGCTGTGCGCAAGATGGCTCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGG
TGGAGGCCCGGAGGCACATCCTGGCCATCCTGCAGGACTGCCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTG
AGCTGTGCCGCGCCTGCAGGCCCCGCTACTACTCCATCGCCTCATCCTCCAAGTCCACCCCAACTCTGTGCACA
TCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAACAAGGGCGTGGCCACCAACTGGCTGCGGG
CCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTCTGTGCGCAAGTCCCAGTTCGCGCTGC
CCTTCAAGGCCACCACGCCTGTATCATGTTGGGCCCCGGCACCGGGGTGGCACCCTTCATAGGCTTCATCCAGG
AGCGGGCCTGGCTGCGACAGCAGGGCAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCGCTCGGATG
AGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCGCTCACCCAGCTCAACGTGGCCTTCT
CCCGGGAGCAGTCCACAAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCG
AAGGCGGTGCCACATCTACGTCTGTGGGGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACA
TCGTGGCTGAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCT
ACTCCCTGGACGTGTGGAGCTAGGGGCCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAATCAGCTCTCC
TGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGGCGCAGGCCCAGTGACAAAGACTCC
TCTGGGCCTGGGGTGCATCCTCCTCAGCCCCAGGCCAGGTGAGGTCCACCGGCCCTGGCAGCACAGCCCAGGG
CCTGCATGGGGGCACCGGGCTCCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTCTC
TCTGCTGAGCTGGGCCCAGCCCCCTCCACGTGATTCCAGTGAGTGTAATAATTTAAATAACCTCTGGCCCTTG
GAATAAAGTTCTGTTTTCTGT

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FIGURE 2303

MTDMILFSLIVGLLTYWFLFRKKKEEVEFTKIQTLSVRESSFVEKMKKTGRNIIIFYGSQTGTAEFANRLS
KDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEQDPTDNAQDFYDWLQETDVDLSGVKFAVFGLG
NKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNEEDFITWREQFWPAVCEHFGVEATGEESSIRQYELVV
HTDIDAAKVYMGEMGRLKSYENQKPPFDAKNPFLAAVTNTRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYP
ANDSALVNQLGKILGADLDVVMNLNDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASEPSEQ
ELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCELLPRLQARYYSIASSSKVHPNSVHICAV
VVEYETKAGRINKGVATNWLRAKEPAGENGGRALVPMFVRKSQFRLPFPKATTPVIMVGPGTGVPFFIGFIQERAW
LRQQGKEVGETLLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEGGA
HIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

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FIGURE 2304

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCCTCCACTACTGGCTACTGGCGCTGCAGCCATGCAGCCCC
CGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCCAGAACATCCAGGAGA
CCCATCGGCTCTACCGCCTGAAGCTGGAGGAGCTGACCAAATTCAGAACAATTGCACCAGCTCCATCACGCGGC
AGAAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCTCCCTCCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACCAGATGAAAGAGCGCCAAGGCCTCTTCTTTGACATGGAGGCCTATTTGCCTAAGA
AGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTCACGCTCCTGAGCAAGCAGGCTAAGTTGCCT
ACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTCACCATCATCCTCATCTCCTTCACTTGCCGCTTCC
TGCTCAACTCCAGGGTGACAGATGCTGCCTTCAACTTCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACGTGTCCACCTTCCTGT
CGGGAGTCATGCTGACGTGGCCCGACGGTCTCATGTACCAGAAATTCGGAACCAATTCCTCTCCTTTTCCATGT
ACCAGAGCTTCGTGCAGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGC
GGCACACCATGGACCTCACTGTGGAGGGCTTCCAGTCCTGGATGTGGCGGGGCCTCACCTTCTGCTGCCTTTTC
TTTTCTTTGGACACTTCTGGCAGCTTTTTAACGCGCTGACGTTGTTCAACCTGGCCAGGACCCTCAGTGCAAGG
AGTGGCAGGTGCTTATGTGCGGCTTTCCCTTCCTCCTCTTTCTCGGCAATTTCTTCACCACCCTGAGGGTTG
TGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAG
GGGCTTCTGTCTGTGTGTTGTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGTCTCTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCAGTGCCCTCAATAAAGAGAGGC
CCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2305

MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKPSLP
AEGAAQELENQMKERQGLFFDMEAYLPKKNGLYLSVLGNVNVTLSSKQAKFAYKDEYEKFKLYLTIILILISFT
CRFLNSRVTDAAFNFLVWYYCTLTIRE SILINNGSRIKGWVVFHHYVSTFLSGVMLTWPDGLMYQKFRNQFLS
FSMYQS FVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRGLTFLLPFLFFGHFWQLFNALTLENLAQDP
QCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

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FIGURE 2306

GGCGCTGGGCAGTGTGGAGGTCGTTGGAGTCACTTCCGCGTCACCAGCTCCTGTGCCTGCCAGTCGGTGCCCCCTC
CCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCTGCCAGCGCTGCTCTCCGCCGCAGCTTCAGCACCTCGGCCC
AGAACAATGCTAAAGTAGCTGTGCTAGGGGGCTCTGGAGGCATCGGGCAGCCACTTTCATTCTCCTGAAGAACA
GCCCCTTGGTGAGCCGCTGACCCTCTATGATATCGCGCACACACCCGGAGTGCCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAGGTTGTGATGTGGTAG
TTATTCCGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACGACCTGTTCAACACCAATGCCACGATTGTGG
CCACCTTGACCGCTGCCTGTGCCCAGCACTGCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCA
CCATCCCCATCACAGCAGAAGTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAGTCAACGTCCCTGTCA
TTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGTGCACCCCAAGGTGGACTTTCCCCAGGACC
AGCTGACAGCACTCACTGGGCGGATCCAGGAGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTG
CCACCTCTCCATGGCGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG
TTGTGGAATGTTCTTCGTTAAGTCACAGGAAACGGAATGTACCTACTTCTCCACACCGCTGCTGCTTGGGAAAA
AGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTGAGGAGAAGATGATCTCGGATGCCATCCCCG
AGCTGAAGGCCTCCATCAAGAAGGGGGAAGATTTCGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGT
TTCTTAATTTATGAAGGCATCATGTCACTGCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATCAATAAAAGCCGTCCT
TGATTTTATTTTCAAGGTCCTTCTGTAAAAA

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FIGURE 2307

MLSALARPASAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSHIETKA
AVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDLNTNATIVATLTAACAQHCPEAMICVIANPVPNSTIPI
TAEVFKKHGVYNPNKIFGVTTLDIVRANTFVAELKGLDPAVNVPVIGGHAGKTIIP LISQCTPKVDFPQDQLTA
LTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIE
KNLGIGKVSSFEEKMISDAIPELKASIKKGEDEFVKTLK

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FIGURE 2308

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTT
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCA
GCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGG
AGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGA
GCCCCGCAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGC
ACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG
ATGGCGTGGTGGAGATCACCGGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGC
GGAAATACACGCTGCCCCCGGTGTGGACCCCAACCAAGTTTCCTCCTCCCTGTCCCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCTTCGAGTCGCGGGGCC
AGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCAAGTAAAGCCTTAGCCTGGATGCCCACCCCT
GCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTCTCAAAT
AAAGTTCAAAGCAACCACCTGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2309

MTERRVPFSLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSR
ALSRQLSSGVSEIRHTADRWVSLDVNHFAPDELTVKTKDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDP
TQVSSSLSPGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK

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FIGURE 2310

ATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCG
AGCGCCGCGTCCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCC
TCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAG
GCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGAGCCCCGCAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCA
GCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACC
ACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGTGAGCCCCCTGCTCCT
GCAGGGGAGAGGAGGAGGCTAGCAGGGCGGGCAGGGCCGGGGCGTGCGGTTGAAACGGGGGTCCCGGGGGCCTG
GGGAGTTAAACGTTGGCCCAGCACCGGGAAAAACAGGACTCCTGATTCCCTTGCTCAGGAATTGGGAGTGCGGGT
CGCTTCTAAGGGCGCTTTCTGCTCTGTAATCCCAGCGCTTTGGGAGGCCGAGACGGGAGGATCGCTTGAGGCCAG
GAGTTCAAGACTAGCCTGGGCAACATAGCGAGACGCGCCCCCGCCCCGACCCCGCGCCATTAC

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FIGURE 2311

CAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCG
ACTGGTACCCGCATAGCCGCCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGAGGAGTGGTCGCAGTGGT
TAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCGCATCGAGAGCCCCGAGTGGCCGCGC
CCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGC
GCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGCTAGCCACGCAGTCCAACG
AGATCACCATCCCAGTACCTTCGAGTCGCGGGGCCAGCTTGGGGGCCAGAAAGCTGCAAAATCCGATGAGACTG
CCGCCAAGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCGCCACCTGTGTG
TTCTTTTGATACATTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAACC

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FIGURE 2312A

GGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCGTCTGGCCAGCCGC
GAGCTCTAAGGGTCGCCCCCGCCGGTCCGCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG
GGCTTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCAGGGCGCGCGCCGGGGCA
GCCGGAGCCGCGCGCCGCGGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCGGCCTCCGGCCACTTTCCATT
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCTTTA
CAAAGAACTCAGAGGACCGGGAAGAAAGATTTACCTTTGCGACGTGCTAGAAAATAAGGTCGTCTGGGAAAA
GGACTGGAGACACAAGCGCATCCAACCCGGTAGCAAACCTGATGACTTTTCCGTGCTGATTTCTTCAACCTCGG
TATTTCCCTTGGATATTAACCTTGCAATATCTGAAGAAATGGCATTCCGGACAATTTGCGTGTGGTTGGAGTATT
TATTTGTTCTATCTGTGTGAAGGATCTTCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACCTTCGAGA
AACCAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTCCCTGAATATTAAACAATATAAGTCAAGAAGCTTTGAG
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAATGCAAAATGGCTGGCAAAGATCCACACACGGCTGTGG
GAACCTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGTCTGTGGGAGTGGCGCTTTCAGTCTGT
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA
AGGACGCTGCTCTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA
TATAGATTTTCATGGGGACAGATGCTGCTATTTTTCGAAGTTTAAACAGAGGAATGCGGTGAGAACTGATCAACA
TAATTCCAAATGGCTAAGTGAACCTATGTTGTAGATGCACATGTCATCCAGATGGTACTGATCCAAATGATGC
TAAGGTGTAATCTTCTTCAAAGAAAACTGACTGACAATAACAGGAGCACGAAACAGATTCAATCCATGATTGC
TCGAATATGTCCTAATGACACTGGTGGACTGCGTAGCCTTGTCACAAGTGGACCACTTTCTTAAAGCGGAGGCT
GGTGTGCTCGGTAACAGATGAAGACGGGCCAGAAACACACTTTGATGAATTAGAGGATGTGTTTCTGCTGGAAAC
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTACAACATCAAGCTCAGTTTCAAAGGATCAGCCGTGTG
TGTGTATCATTTATCTGATATACAGACTGTGTTAATGGGCTTTTGGCCACAAAGAGGGCCCAATCATCAGCT
GATTTCTATCAGGGCAGAAATCCATATCCTCGCCCTGGAACCTGTCCAGGAGGAGCATTACACCAATATGCG
AACCACCAAGGAGTTCCAGATGATGTTGTCACTTTTATTCGGAACCATCCTCTCATGTACAATTCATCTACCC
AATCCACAAAAGGCCTTTGATTGTTGCTATTGGCACTGACTACAAGTATACAAAGATAGCTGTGGATCGAGTGAA
CGCTGCTGATGGGAGATACCATGTCCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGGTTGTTCTTCC
TACTAACAACTCTGTCTAGTGGCGAGCTCATTCTGGAGGAGCTGGAAGTCTTTAAGAAATCATGCTCCTATAACAAC
AATGAAAATTTTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCAGGTATCTCTGCACCG
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCCTGGCGCGGACCCCTTATTGCGCCTGGGATGGCCATT
CTGTTCCAGATTCTACCCAACCTGGGAAACGGAGGAGCCGAAGACAAGATGTGAGACATGAAACCCACTGACTCA
ATGCAGAGGATTTAATCTAAAAGCATACAGAAATGCAGCTGAAATGTCCAGTATGGAGTAAAAAATAACACCAC
TTTTCTGGAGTGTGCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTTCAGGGTTCTGACCA
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTTAGA
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCATGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCCT
CCACCCGAAGGACATCATGGGGCATTTCAGCCACTCAGAAATGCAGATGATTAACCAATATTGCAAAGACACTCG
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG
TCGGAAGTAGAAAACAGGAGGAATCAGTTGCCAGAGTCATAATATTTCTTATGTGGGTCTTATGCTTCCATTA
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAAGCAAGAACTTGTGCTTTACCAAGGGGAATTACTGAAAAAG
GTGATTACTCTGAAGTGAGTTTTACACGAACTGAAATGAGCATGCATTTTCTTGTATGATAGTACTAGCACTA
GACATGTCTGGTCCCTCATGGTGCATATAAATATATTAACTTAACCCAGATTTTATTTATATCTTTATTCACCT
TTTCTTCAAATCGATGATGGTGGCTGCAAAACTAGAAATGTTGTCATCCCTCAATTGAATGAGGGCCATATCCCTG
TGGTATTCCTTTCTGCTTTGGGGCTTTAGAAATCTAATTTGTGATGATTTTGTATATGAAAAAAGTTCCAAAT
CCACAGCTTTTACGTAGTAAAGTCATAAATGCATATGACAGAATGGCTATCAAAAGAAATAGAAAAGGAAGACA
GCATTTAAAGTTGTATAAAAACATGAGTTATTCATAAAGAGAAAATGATGAGTTTTTATGGTTCCAATGAAATAT
GTTGGGGTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCTTATTCAGGA
AGATAAAAATCAGTAACCTACCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTTATATTC
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTGGAAGTTATTTATTTTAGACTCAAAGAATATAATC

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FIGURE 2312B

TGGCACTACTCAGTTATTACTGTTTGTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGAAGGAA
AAATTTGAAGTATTAGACTTCTAAATAAGGTGTGAAATCATCAAAAAGAAAAATCAAAGTAGAACTACTAATTT
TTTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCATGATTCTTCCTTTTATTA
AAACCAGTCTCAGATATCATACTGATTTTTTAAGTCAACACTATATATTTTATGATCTTTTCAGTGTGATGGCAAG
GTGCTTGTTATGTCTAGAAAGTAAGAAAACAATATGAGGAGACATTCTGTCTTTCAAAGGTAATGGTACATACG
TTCAGTGGTCTCTAAGTGTAAAAGTAGTAAATTTTGTGATGAATAAAATAATTATCTCCTAATTGTATGTTAGAA
TAATTTTATTAGAATAATTTTCACTGAAATTTTCTCCAAATAAAAATTAGATGGAAAAATGTGAAAAAAT
TATTCATGCTCTCATATATATTTTAAAAACACTACTTTTGCTTTTTTATTTACCTTTTAAGACATTTTCATGCTT
CCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTATAGTTAATAATCT
ATGATGAAGGTAATTAAAGTAGATTATGGCCTTTTAAAGTATTGCAGTCTAAAACCTCAAAAACATAAATCATTG
TCAAAATTAATATGATTATTAATCAGAATATCAGAATATGATTCATTTAAACTATGATAAATTATGATAATA
TATGAGGAGGCCTCGCTATAGCAAAAATAGTTAAAATGCTGACATAACACCAAACCTCATTTTTTAAAAAATCTG
TTGTTCCAAATGTGTATAATTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAAGGTAT
AATTAACTTCTTTTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAAACCATCTTCTGTGTTT
ATGGCCAATCTATTCTCAAAGTTAAAAGTAAAATTGTTTCAGAGTCACAGTTCCTTTTATTTACATAAGCCCAA
ACTGATAGACAGTAACGGTGTGTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTACAAATTATTA
AATTGTGTACACTTTCATTACTTTTAAAAATGTAGAAATTCTTCATGAACATAACTCTGCTGAATGTAAAAGAAA
ATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAATTCA
GTGACTTAATATCTATTCCATTTGTATTGTACATAAAATTTCTAGAAATACACTTTTTTCCAAAGTGTAAGTTT
GTGAATAGATTTTAGCATGATGAACTGTCATAATGGTGAATGTTCAATCTGTGTAAGAAAACAACTAAATGTA
GTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAATAAAACATGTTGAATTCCCC

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FIGURE 2313

CTTTCTGTCTTGATGACCTGTCTAGTGCTATAAATGAACACCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCG
TTAAAGTCTCTCTTCTCCCTGCCGTCAITGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCT
TCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGG
ACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGG
AGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAA
GAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCA
AAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCA
GTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCTGTGGATAAGATTGTCAATTCAGAAAT
ACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCA
GCCAAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTG
GTCATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGCAGTGGGG
ATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACA
ACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCATGGCGGTG
GAGGCAATACTTTGCAAACCAAGGTGGCTATGGCAGTTCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGAT
TTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATT
TGTGAAGTCAAGCAAGCAGTGGTGGCAGGGCCTAGCTGTCTACAAAGAAGACGTGTTTTAGACACATACTCATG
TGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAGCTGTATAACAGGTATTTTAAATTTCTATTCTGCGGA
AAGTGTAAAGCATTCCAACAAAGGGTTTTAATGTAGTTTTTTTTTTTGCACCCATGCTGTTGATTATTAAATGTAA
TAGTCTGATTGTGACACTGAATAAATGTCTTTTTT

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FIGURE 2314

MSKSESPKEPKQLRKLFIGGLSFETTNESLRSHFEQWGTLMDCVVMRDPNTKCSRGFVVTYATVEEVDAAMNAR
PHKVDGRVVESKRAVSREDSQRPGAHLTVKKIFVGGIKEDTKEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHICEVRKALSKQEMASTSSSQRGSGSGNFVVEATMILAITTISLQILD

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FIGURE 2315

CCTTTCTGCCC GTGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCT
GAGGAGCCATTTT GAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAG
GGGCTTTGGGTTTGT CACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAGAGATTATTTGAAACAGTATGTGGA
AGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATG
AAGGGAGGAAATTTTGGAGGCAGAAAGCTCTGGCCCCCTATGGCGGTGGAGGCAATACTTTGCAAAACCAAGGTGGC
TATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAG
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGGCCTAGCTG

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FIGURE 2316

AAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCTGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCC
AAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTGGTC
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGGA
GGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCCCTATGGCGGTGGAGGCAATACTTTGCAAA

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FIGURE 2317

CCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAG
CTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAG
AGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTAT
GAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAG
ACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAG
AGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGG
CTTTGCCCTTTGTAACCTTTGACGACCATGACTCGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGC
AGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGC
AATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGG

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FIGURE 2318

ATGCCAACTATGTCACCTTTACGGATACCAAACAATTGATTAGTGATACTCCAAATAATCAAGTTCCAATGAAC
CGTGCCAGCATGGCTTTTGATGCCAAATGTCTGACTGGATGCAGATTTGATGATGCCATTGTCCAGTTGATATG
ACATATTGGCCTTTTCACGGTGGTAAATGATGCTGGCAGGCCCAAGGTCCAAGTAGAGTATGAGAGAGACAAAAAG
CTGCTACCCATAGGAGGTGTCTTCTATGGTTCTGACAAAGATGAAGGAAATTGCAAAAGTCTACCTTGGGAAGAC
TGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTGAATGA

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FIGURE 2319A

GTAACAACCGTCACCCTGGGTCCCGACTGCCACCTCCTCCTCCTCCCCCTCCCCCAACAACAACAACAAC
AACTCCAAGCACACCGGCCATAAGAGTGCCTGTGTCCCCAAATGACCGAACGAAGAAGGGACGAGCTCTCTGAA
GAGATCAACAACCTTAAGAGAGAAGGTCTAAGAGCAGTCGGAGGAGAACAACAACCTGCAGAGCCAGGTGCAGAAG
CTCAGAGAGGAGAACACCACCTTTCGAGAGCAAGTGGAAACCCACCCCTGAGGATGAGGATGATGACATCGAGCTC
CGCGGTGCTGCAGCAGCTGCTGCCCCACCCCTCCAATAGAGGAAGAGTGCCAGAACCTCCAGAGAAGTTC
GATGGCAACCCAGACATGCTGGCTCCTTTTCATGGCCAGTGCCAGATCTTCATGGAAAAGAGCACCAGGGATTTC
TCAGTTGATCGTGTCCGTGTCTGCTTCGTGACAAGCATGATGACCGGCCGTGCTGCCCCGTGGGCCCTCAGCAAAG
CTGGAGCGCTCCACTACCTGATGCACAACCTACCCAGCTTTCATGATGGAAATGAAGCATGTCTTTGAAGACCTT
CAGAGGCGAGAGGTTGCCAAACGCAAGATCAGACGCCTGCGCAAGGCATGGGGTCTGTATCGACTACTCCAAT
GCTTTCCAGATGATTGCCCAGGACCTGGATTGGAACGAGCCTGCGCTGATTGACCAGTACCACGAGGGCCTCAGC
GACCACATTCAGGAGGAGCTCTCCACCTCGAGGTGCGCAAGTCGCTGTCTGCTCTGATTGGGCAGTGCATTAC
ATTGAGAGAAGGCTGGCCAGGGCTGCTGCAGCTCGCAAGCCAGCTCGCCACCCGGGCGCTGGTGTGCTTCAC
ATTGCAAGCCACCACAGGTAGATCCAACCGAGCCGGTGGGAGGTGCCCGCATGCGCCTGACGCGAGGAAGAAAA
GAAAGACGCGAGAAAGCTGAACCTGTGCCTCTACTGTGGAACAGGAGGTCACTACGCTGACAATTGCTCTGCCAAG
GCCTCAAAGTCTTCGCCGCGGGGAACTCCCCGGCCCCGCTGTAGAGGGACCTTCAGCGACCGGGCCAGAAATAA
TAAGGTCCCCACAAGATGATGCCTCATCTCCACACTTGCAAGTGATGCTCCAGATTCATCTTCGGGCGAGACACA
CCCTGTTTCGTCCGAGCCATGATCGATTCTGGTGCTTCTGGCAACTTCATTGATCACGAATATGTTGCTCAAAATG
GAATTCCTCTAAGAATCAAGGACTGGCCAATACTTGTGGAAGCAATTGATGGGCGCCCCATAGCATCGGGCCAG
TTGTCCACGAAACTCAGACCTGATAGTTGACCTGGGAGATCACCGAGAGGTGCTGTCAATTTGATGTGACTCAGT
CTCCATTCTTCCCTGTCTGCTTAGGGGTTTCGTGGCTGAGCACACATGATCCCAATATCACATGGAGCACTCGAT
CTATCGTCTTTGATTCTGAATACTGCCGCTACCACTGCCGGATGTATTCTCCAATACCACCATCGCTCCCACCAC
CAGCACCACAACCGCCACTCTATTATCCAGTAGATGGATACAGAGTTTACCAACCAGTGAGGTATTACTATGTCC
AGAATGTGTACACTCCAGTAGATGAGCACGCTCTACCCAGATCACCGCCTGGTTGACCCTCACATAGAAATGATAC
CTGGAGCACACAGTATTCCAGTGGACATGTGTATTCACTGTCCGAACCTGAAATGGCAGCTCTTCAGAGTTTTCG
TGGCAAGAAATGTAAAAGATGGGCTAATTACTCCAACGATTGCACCTAATGGAGCCCAAGTTCTCCAGGTGAAGA
GGGGTGGAAACTGCAAGTTTCTTATGATTGCCGAGCTCCAACAATTTTACTATCCAGAATCAGTATCCTCGCC
TATCTATTCCAAATTTAGAAGACCAAGCACACCTGGCAACGTACACTGAATTCGTACCTCAAATACCTGGATACC
AAACATACCCACATATGCCGCGTACCCGACCTACCCAGTAGGATTCGCTTACCCAGTGGGACGAGACGGAC
AAGGAAGATCACTATATGTACCTGTGATGATCACTTGAATCCCACTGGTACCGCCAGCCTCCGGTACCACAGT
ACCCGCCGCCACAGCCGCCGCTCCACCACCACCACCGCCGCCGCTCCATCTTACAGTACCCTGTAAATACCTG
TCATGTCCTTCAGGATCTCTGCCCTCAAATTTATCTCTGTTCAGCTTCTCAATCAGTACTGTGTGCTAAATTT
TAGGCTACTGTATCTTCAGGCCACCTGAGGCACATCCTCTCTGAAACGGCTATGGAAGGTTAGGGCCACTCTGGA
CTGGCACACATCCTAAAGCACCAAAAGACCTTCAACATTTTCTGAGAGCAACAGAGTATTGCCAATAAATGATC
TCTCATTTTTCCACCTTGACTGCCAATCTAACTAAATAATTAATAAGTTTACTTTCCAGCCAGTCCGGAAGTC
TGGGTTTTTACCTGCCAAAACCTCCATCACCATCTAAATTATAGGCTGCCAAATTTGCTGTTTAACTTTACAGAG
AAGCTGATACAAACGCAGGAAATGCTGATTTCTTTATGGAGGGGAGACGAGGAGGAGGAGGACATGACTTTTCT
TGCGGTTTCGGTACCCTCTTTTTAAATCACTGGAGGACTGAGGCCTTATTAAGGAAGCCAAAATTATCGGTGCAG
TGTGGAAGGCTTCCGTGATCCTCTCGCTGCACCTTAGAACTTACCGTCTTCAAACCTCCATTTCCATGGTTC
TGTTAATTTCAAGGAGCAGCAACTCGACTGGTTCTCCAGGAGCAGGAAAAACCTTGTGACATGAAACATCTC
AGGCCTGAAAAGAAAGTGCTCTCTCAGATGGACTCTGCAATGTTAAGACTATGTCTTCACATCATGGTGCAATC
ACATGTACCCAATGACTCCGGCTTTGACACAACACCTTACCATCATCATGCCATGATGGCTTCCACAAAGCATT
AACCTGGTAACCAGAGATTACTGGTGGCTCCAGCGTTGTTAGATGTTTATGAAATGTGACCACCTCTCAATCACC
TTTGAGGGCTAAAGAGTAGCACATCAAAGGACTCCAAAATCCCATACCCAACCTTTAAGAGATTTGTCTGGTA
CTTCAGAAAGAAATTTTATGAGTGTCTTAAATTGGCTGGAAGACCAAGCTGACGTTTTGGAAGAATCTATCCA
TGTGTCTGCTCCATATGCATCTGGGCATTTTCATCTCAGTCCCCTCATTAGACTGTAGCATTAGGATGTGTGGA
GAGAGGAGAAATGATTTAGCACCCAGATTCACACTCCTATGCCTGGAAGGGGGACATCTTTGAAGAAGAGGAATT
AGGGCTGTGGACACTGTCTTGAGGATGTGGACTTTCCTAGTGAGCTCCACATTACTTGATGGTAACCACTTCAA
AGGATCAGAAATCCACGTAATGAAAAGGTCCCTCTAGAGGATGGAGCTGATGTGAAGCTGCCAATGGATGAAAAG

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FIGURE 2319B

CCTCAGAAAGCAACTCAAAGGACTCAAAGCAACGGACAACACAAGAGTTGTCTTCAGCCCAGTGACACCTCTGAT
GTCCCCTGGAAGCTTTGTGCTAACCTGGGACTGCCTGACTTCCTTTAGCCTGGTCCCTTGCTACTACCTTGAAC
GTTTTATCTAACCTCTCTTTTTCTGTTTAATTCTTTGCTACTGCCATTGACCCTGCTGCAGGATTTGTGTCAATT
TCCTGCCTGGTTGCTGAGACTCCATTTTGTGCCACACACAGAGATGTAAGAGGCAGGCTTTAATTGCCAAAGCA
CAGTTTGAGCAGTAGAAAAACAACATGGTGTATATCTCAAATTGCCTGACATGAAGAGGAGTCTAACGGTGAAGTT
TCACTTTTATCAGCATCATCTTTCACATGTTCAATTATCATCCGCTCTTATTCTTGCAATGTTTAAACACTTAAAA
TTTTAGTATAATTTTTAGTGTGTTTTGAAGTGGTGACTAGGCTTTCAAAAACCTTCCATTGAATTACAAAGCACT
ATCCAGTTCTTATTGTTAAACTAAGTAAAAATGATAAGTAACATAGTGTAAAAATATTCTTTACTGTGAACCTCT
TACAATGCTGTGAATGAGAGGCTCCTCAGAAGTGGAGCATTGTATAATAATTCATCCTGTTTCATCTTCAATTTT
AACATCATATATAATTTCAATTCTATCAATTGGGCCTTTAAAAATCATATAAAAGGATATAAAATTTGAAAAGAG
AAACCTAATTGGCTATTTAATCCAAAACAACCTTTTTTTTTCTCTCAATGGAATCAGAAAGCTTGTCATCACTC
ATGTGTTTTAGAGTAATTACTTTTAAAAATGGTGCATTGTGCTTCTGAACATTTTGAAGAGTCACTTCTGTTTA
CCTCAAGTATCAATTCATCCTCCATACATTGAATTCAGTTGTTTTTGTCAAATTTACAGTTGTCAATTGATC
TTCAAGCTGCAGGGTGCCTAGAAATGGGCCGTGTCTGTAGCCCTGGCATGTGCACACGGACATTGGCCACCACT
GCAAGCAAAAGTCTGGAGAAGTTCACCAACGACAAGAACGATTAGGGAATAATGCTGCTGTGGGTAAACAACCTC
AGAAAGTCCCTGATCCACATTTGGCTGTTTACTAAAGCTTGTGATTAACCTTTTGGCAGTGTGTACTATGCTCTA
TTGCTATATATGCTATCTATAAATGTAGATGTTAAGGATAAGTAATCTAAATTTATTATTCTATAGTTTGAAG
TTTGGTTAAGTTTCTTTCACTCAATTGATTTATTTTGTGTTAATCAAATTTATGTTAATTGGATCCTTTAAAT
TTTTTTTGGCATTTCCTCAACAAAAATGGCTTTATTCATAAGAAAGGAAAAAATCAATGGAATTTGATATCTAAA
GAAGTTAGAAAGGGAGCAAAATAAAAAACATAAAGGAGATAGATGAATTAGTAAGCAAATCAGTAGTCGAGTTTT
TCAAAC TGGCAAAATTAATTAATTGACTTTTAGCCCAAATTTACATTGTTAATTAAATCAAGAAGGAAGAAGATC
TAAGAGCTCCCATGATAGGCAAGCCTAGAGAGAACTAGCTAAATTTATCATGCTAGGATATTGAAACACAGAAA
GTTTACATACATTTATGAAGGGTCAATTTAGTTTGGACAGTGAGGTATTTGTCTTAGTGGAAGGAGGAGAATTA
GTCTGATCAAATCGTGAAGTAATACAGTGAACCTGCAGGTGCACAAAATAAGAGGGCCACATCTATATGGTGCAG
TCTGGAATCTGTTTAAAGTTGTAGGTACCTCTTGGACTTCTGAATTGATCCAGTTGTCTATCCACCACAGACATC
TCACATCAGATACAGACAGTTCCAAGATTGACAACAGAGAACCACTGCTGGAAAGACCTGGGCAGAAATGGAGA
GCCCTGCGGGAACCATGCTACATTTTATCTAAAGAGAGAATGCACATCTGATGAGACTGAAAGTTCTTTGTTGT
TTTAGATTGTAGAATGGTATTGAATTGGTCTGTGGAAAATGCATTGCTTTTATTCTTTGTGTAAATCAAGTTTA
AGTAATAGGGGATATATAATCATAAGCATTTTAGGGTGGGAGGGACTATTAAGTAATTTAAGTGGGTGGGGTTA
TTTAGAATGTTAGAATAATATTATGTATTAGATATCGCTATAAGTGGACATGCGTACTTACTTGTAAACCTTTAC
CCTATAATTGCTATCCTTAAAGATTTCAAATAAACTCGGAGGGAAGTGCAGGGAGACCAACTTATTTAGAGCGAA
TTGGACATGGATAAAAACCCAGTGGGAGAAAGTTCAAAGGTGATTAGATTAATAATTTAATAGAGGATGAGTGA
CCTCTGATAAATTACTGCTAGAATGAACCTGTCAATGATGGATGGTAAATTTTCATGGAAGTTATAAAAGTGATA
AATAAAAACCCCTTGCTTTTACCCCTGTCTAGTAGCCCTCCTCTACCACTGAACCCATTGCCCTACCCCTCCTT
CTAACTTTATTGCTGTATTCTCTTCACTCTATATTTCTCTCTATTGTCTAATATTGCATTGCTGTTACAATAAAA
ATTCATAAAGATTTAGTGGTTAAGTGC

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FIGURE 2320

MTERRRDELSEEINNLRKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDDIELRGAAAAAPPPIE
EECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDVRVCFVTSMMTGRAARWASAKLERSHYLMHNYPAF
MEMKHVFEDPQRREVAKRKIRRLRQGMGSVIDYSNAFQMIQDLWNEPALIDQYHEGLSDHIQEELSHLEVAK
SLSALIGQCIHIERRLARAAAARKPRSPPRALVLPHIASHHQVDPTEPVGGARMRLTQEEKERRRKLNLCLYCGT
GGHYADNCPAKASKSSPAGNSPAPL

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FIGURE 2321A

AGCACCACGGCAGCAGGAGGTTTTCGGCTAAGTTGGAGGTAAGTGGCCACGACTGCATGCCCCGCGCCCGCCAGGTGA
TACCTCCGCGCGGTGACCCAGGGGCTCTGCGACACAAGGAGTCTGCATGTCTAAGTGCTAGACATGCTCAGCTTGTG
TGGATACGCGGACTTTTGTGCTGCTTGACGTAACCTTATGCCTAGCAACATGCCAATCTTTACAAGAGGAACTG
TAAGAAAGGGCCAGCCGAGATAGAGGACCACGTGGAGAAAGGGGTCCACCAGGCCCCCAGGCAGAGATGGTG
AAGATGGTCCCACAGGCCCTCCTGGTCCACCTGGTCCCTCGGCCCCCTGGTCTCGGTGGGAACCTTTGCTGCTC
AGTATGATGGAAGGAGTTGGACTTGGCCCTGGACCAATGGGCTTAATGGGACCTAGAGGCCACCTGGTGCAG
CTGGAAGCCCCAGGCCCTCAAGGTTTTCAAGGACCTGCTGGTGAGCCTGGTGAACCTGGTCAAACCTGGTCTGCAG
GTGCTCGTGGTCCAGCTGGCCCTCCTGGCAAGGCTGGTGAAGATGGTCACCTGGAAAACCCGGACGACCTGGTG
AGAGAGGAGTTGTTGGACCACAGGGTGCCTGGTGGTTTCCCTGGAACTCCTGGACTTCTGGCTTCAAAGGCATTA
GGGGACACAATGGTCTGGATGGATTGAAGGGACAGCCCGGTGCTCCTGGTGTGAAGGGTGAACCTGGTGGCCCTG
GTGAAAATGGAACCTCAGGTCAAACAGGAGCCCGTGGGCTTCTGGTGAGAGAGGACGTGTTGGTGGCCCTGGCC
CAGCTGGTGGCCGTGGCAGTGATGGAAGTGGGGTCCCGTGGGCTCCTGCTGGTCCCATTGGGTCTGCTGGCCCTC
CAGGCTTCCCAGGTGCCCTGGCCCCAAGGGTGAAATTGGAGCTATTGGTAACGCTGGTCTGCTGGTCCCAGCCG
GTCCCCGTGGTGAAGTGGGTCTTCCAGGCCCTCCTCGGCCCGTGGACCTCCTGGTAATCCTGGAGCAAACGGCC
TTACTGGTGGCAAGGGTGTGCTGGCCCTTCCCGCGTGTGGGGCTCCCGGCTCCTGGACCCCGCGGTATTC
CTGGCCCTGTTGGTGTGCGGGTGTACTGGTGCCAGAGGACTTGTGGTGAGCCTGGTCCAGCTGGCTCCAAAG
GAGAGAGCGGTAAACAAGGGTGAGCCCGGCTGCTGTTGGGCCCAAGGTCTCCTGGTCCCAGTGGTGAAGAAGGAA
AGAGAGGCCCTAATGGGGAAGCTGGATCTGCGGCCCTCCAGGACCTCCTGGGCTGAGAGGTAGTCTGGTTCTC
GTGGTCTTCTGGAGCTGATGGCAGAGCTGGCGTCATGGGCCCTCCTGGTAGTCGTGGTGCAAGTGGCCCTGCTG
GAGTCCGAGGACCTAATGGAGATGCTGGTCCCGCTGGGGAGCCTGGTCTCATGGGACCCAGAGGTCTTCTGGTT
CCCCGTGGAATATCGGCCCGCTGGAAAAGAGGTCTGTGCGGCTCCTGGCATCGACGGCAGGCTGGCCCAA
TTGGCCCCGTGGAGCAAGAGGAGAGCCTGGCAACATTGGATTCCCTGGACCCAAAGGCCCCACTGGTGACCCTG
GCAAAAACCGTGATAAAGGTGCTGCTGGTCTTGTGGTGTGCGGGGTGCTCCAGGTCTGATGGAACAATGGTG
CTCAGGGACCTCCTGGACCACAGGGTGTTCAAGGTGGAAAAGGTGAACAGGGTCCCGCTGGTCTCCAGGCTTCC
AGGGTCTGCTGGCCCTCAGGTCCCGCTGGTGAAGTTGGCAAACCAGGAGAAAGGGTCTCCATGGTGAGTTTG
GTCTCCCTGGTCTGCTGGTCCAAGAGGGGAACGCGGTCCCCAGGTGAGAGTGGTGTGCGCGGTCTTACTGGTC
CTATTGGAAGCCGAGGTCTTCTGGACCCCAAGGCTGATGGAAACAAGGGTGAACCTGGTGTGGTGTGGTGTG
TGGGACTGCTGGTCCATCTGGTCTAGTGGACTCCAGGAGAGAGGGGTGCTGCTGGCATACCTGGAGGCAAGG
GAGAAAAGGGTGAACCTGGTCTCAGAGGTGAATGGTAACCTGGCAGAGATGGTGTGCTGGTGTGCTGATGGTG
CTGTAGGTGCCCCCTGGTCTGCTGGAGCCACAGGTGACCGGGCGAAGCTGGGGCTGCTGGTCTGCTGGTCTG
CTGGTCTCGGGGAAGCCCTGGTGAACGTGGCGAGGTGCGTCTGCTGGCCCCAACGATTGTGCTGGTCCGGCTG
GTGCTGCTGGTCAACCGGGTGCTAAAGGAGAAAGAGGAGGCAAGGGCTAAGGGTGAACAAGGTGTTGTTGGTCT
CCACAGGCCCCGTGGAGCTGCTGGCCAGCTGGTCCAAATGGTCCCCCGGTCTGCTGGAGTGAAGTCTGGTGTG
GAGGCCCCCTGGTATGACTGGTTTCCCTGGTGTGCTGGACGGACTGGTCCCCCAGGACCTCTGGTATTCTG
GCCCTCCTGGTCCCCCTGGTCTGCTGGGAAAGAGGGCTTCGTGGTCTCCTGGTGAACAGGTCCAGTTGGCC
GAACTGGAGAAGTAGGTGCAGTTGGTCCCCCTGGCTTCGCTGGTGAGAAGGGTCCCTCTGGAGAGGCTGGTACTG
CTGGACCTCCTGGCACTCCAGGTCTCAGGGTCTTCTGGTGTCTCCTGGTATTCTGGGTCTCCTGGCTCGAGAG
GTGAACGTGGTCTACCTGGTGTGCTGGTGTGCTGGGTGAACCTGGTCTCTTGGCATTCGCCGCCCTCCTGGGG
CCCGTGGTCTCCTGGTGTGCTGGGTAGTCTGGAGTCAACGGTGTCTCCTGGTGAAGCTGGTCTGATGGCAACC
CTGGGAACGATGGTCCCCCAGGTGCGATGGTCAACCCGACACAAGGAGAGCGCGTTACCTGGCAATATTG
GTCCCGTTGGTGTGCTGAGGTGCACCTGGTCTCATGCCCCCGTGGGTCTGCTGGCAAACATGGAACCGTGGTG
AAACTGGTCTTCTGGTCTGTTGGTCTGCTGGTGTGCTGGTGGTCAAGGGTCTTCTGGCTTCAAGGGACACAATGGATTGCAAG
GTGGCGATAAGGGAGAGCCCGGTGAAAAGGGGCCAGAGGTCTTCTGGCTTCAAGGGACACAATGGATTGCAAG
GTCTGCCTGGTATCGCTGGTACCATGGTGATCAAGGTGCTCCTGGTCCGTGGGTCTGCTGGTCTAGGGGCC
CTGCTGGTCTTCTGGCCCTGCTGGAAAAGATGGTGCACCTGGACATCCTGGTACGGTTGGACCTGCTGGCATTC
GAGGCCCTCAGGGTACCAAGGCCCTGCTGGCCCCCTGGTCCCCCTGGCCCTCCTGGACCTCCAGGTGTAAGCG
GTGGTGGTTATGACTTTGGTTACGATGGAGACTTCTACAGGGCTGACGACCTCGCTCAGCACCTTCTCTCAGAC
CCAAGGACTATGAAGTTGATGCTACTCTGAAGTCTCTCAACAACCAGATTGAGACCCTTCTTACTCCTGAAGGCT

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FIGURE 2321B

CTAGAAAGAACCCAGCTCGCACATGCCGTGACTTGAGACTCAGCCACCCAGAGTGGAGCAGTGGTTACTACTGGA
TTGACCCCAACCAAGGATGCACTATGGAAGCCATCAAAGTATACTGTGATTTCCCTACCGGCGAAACCTGTATCC
GGGCCAACCTGAAAACATCCCAGCCAAGAACTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGCTAGGAG
AAACTATCAATGCTGGCAGCCAGTTTGAATATAATGTTGAAGGAGTGACTTCCAAGGAAATGGCTACCCAATTG
CCTTCATGCGCCTGCTGGCCAACATATGCCTCTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGG
ATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACTTGTGCTGAGGGCA
ACAGCAGGTTCACTTACACTGTTCTTGTAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAAAGACAATCATTG
AATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATG
AATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAGAAAGAAATTTGA
AAAACTTTCTCTTTGCCATTTCTTCTTCTTTTAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATC
TACTTGCTTAAATTGTGGGCAAAAGAGAAAAAGAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACTC
CTTCCCCGCTCCCCCAAAAATTGAATTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTG
TAAGAAAACCAAAATAAAAATTGAAAAATAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCC
ACAGAGGGAAGTTTAAACCCAACTTCCAAAGGTTTAACTACCTCAAAACACTTTCCCATGAGTGTGATCCAC
ATTGTTAGGTGCTGACCTAGACAGAGATGAACTGAGGTCCTTGTTTTGTTTTGTTTCATAATACAAAGGTGCTAAT
TAATAGTATTTTCAATACTTGAAGAATGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTT
GTATCGTGTGGTGTATTTTAAAAAATTTGATTTAGCATTCAATTTTCCATCTTATTCCCAATTAAAAGTATG
CAGATTATTTGCCCAAAGTTGTCCTCTTCTTCAGATTACAGCATTGTTCTTTGCCAGTCTCATTTTCATCTTCTT
CCATGTTTCCACAGAAGCTTTGTTTCTTGGGCAAGCAGAAAAATTAAATTGTACCTATTTTGTATATGTGAGATG
TTTAAATAAATTGTGAAAAAATGAAATAAGCATGTTTGGTTTCCAAAAGACATAT

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FIGURE 2322

ATTTAAC TTTTAATGCTTTTTCTACAATATGCTATAAATATAAGAAAAATTAAAATTCACTAACAGCAAGACTAC
ATACCCACCCAGGTCCCGCTCCCAAAGACACACATAGAGGGACATACACACAACAATCCTAAAAATGACTTTGTA
GAGATAGGTCACTTGAATGTGTGTTGAAATGTTGTTGGTTTTTTTTGGTTGGTTTGTGTTGTTGTTTTGTTAG
ACTGATAGGGAGCCCTCCCACTAAAGACACCCTTGATACTGTTATTTCAAGGATGAAC TTATTTATCTGGGACA
GACATCTTCAGAATGACACATGCCAAACAGTGGTTCTTATTAAATCAAAGGTTGAGATATTATCAGATTCAGAAA
TAGTGATGCTTTGTGTATCTATTTTCTCTCTTTAAACAGAAAAAGACAAATGAATGGGGAAAGACAATCATTGA
ATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATGA
ATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGGA
GAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACCTTCCCCCGCTCCCCCAAAATTTGA
ATTTTTTTTTCAACACTCTTACACCTGTTATGGAAATGTCAACCTTTGTAAGAAAACCAAAATAAAATTTGAAA
AATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCCACAGAGGGAAGTTTAAAACCCAACT
TCCAAAGGTTTAAACTACCTCAAACACTTTCCCATGAGTGTGATCCACATTGTTAGGTGCTGACCTAGACAGAG
ATGAACTGAGGTCC TTGTTTTGTTTGTTCATAATACAAAGGTGCTAATTAATAGTATTTAGATACTTGAAGAA
TGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTTGTATCGTGTGGTGTATTTTTTAA

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FIGURE 2323

CATCCGTGGACTTGGAGGCTGGCTCGGGCCCGCACCTCCCATCCCCAGCTGCCCCGAACCCCCAGTGACTCGGGA
TCCCCCGGAGAGCCCTCCCTCTCGGCAGGAGGGGGCTGACTCAGGGAGAAATGGCAGTTTAGGGCCTAGGGGGC
CACGTGACCTTCCCCCAGGAATGTGGTGACGTATCGGAGGCGTGGTCGTCCCCAAAATTAGGGAGGAAGAGGAA
AAAAAAAAGCCAGAAAAAGTTTTCTTTTCTGGAGTCCCAAACGAGGTGCGGGACGGAAGAGGGGGTGAAGGCCAG
AGGCTCGGGGCTTCAAGACCGTGTCTGGAGTCCCCCTTTCCAGGCCATGTGCGGGCCACCTGGCTGCCCCCGA
AGCAGCCGGAGCCCGCCAGAGCCCCCAGGGGAGGGCGATCCCCCGCGGCACCCCGGGGCCACACCGGCCACG
GAGCAGCACTCCAGCCCCACCCAGGGTCAATTTTTGCCCCCTTCCATCTGAGCAGTGTACCAGGCCCCAGGGG
GACCGGAGGATCGGGGGCCGGCTGGGTGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACA
GGGGGGGGCCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTGCTGAGCAGCAGCTGGCCGAGCTGAATGGGG
GTCGGGGTTCATGCGTCACGGCGACCAGACCGACAGGCATATGAGCCCCGCCACCTCCTGCCTACCGCACGGGCT
CCCTGAAGCCAAATCCAGCCTCGCCGCTCCCAGCGTCTCCCTATGGGGGCCCCACTCCAGCCTCTTACACTACCG
CCAGCACCCCGGCTGGCCCCAGCCTTCCCCGTGCAAGTGAAGGTGGCACAGCCAGTGAGGGGCTGCGGGCCACCCA
GGCGGGGAGCCTCTCAGGCCTCTGGGCCCCCTCCCGGGCCCCCACTTTCCTCTCCAGGCCGAGGTGAAGTCTGGG
GGCCTGGCTATAGGAGCCAGAGAGAGCCAGGGCCAGGGGCCAAAGAGGAAGCTGCTGGGGTCTCTGGCCCTGCAG
GAAGAGGAAGAGGAGGCGAGCACGGGCCCCAGGTGCCCTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGA
CGAAGAAGCTGGTTCACGACATGAACCAACCGCCAGCGGGGAGTACTTTGGCCAGTGTGGTGGCTGCGGAGAAG
ATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCTTGATCGCGTCTTTACGTGGGCTGCTTTGTATGTTCTACAT
GCCGGGCCCAGCTTCGCGGCCAGCATTCTACGCCGTGGAGAGGAGGGCATATTGCGAGGGCTGCTACGTGGCCA
CCCTGGAGAAATGTGCCACGTGCTCCCAGCCCATCCTGGACCGGATCCTGCGGGCTATGGGGAAGGCCTACCACC
CTGGCTGCTTACCTGCGTGGTGTGTACCGCGGCCCTCGACGGCATCCCTTCACAGTGGATGCTACGAGCCAGA
TCCACTGCATTGAGGACTTTTACAGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGC
CAGGTCAGGAGGAGACTGTGAGAATTGTGCTCTGGATCGAAGTTTTACATTGGCTGTTACAAGTGCGAGGAGT
GTGGGCTGCTGCTCTCCTCTGAGGGCGAGTGTGAGGGCTGCTACCCGCTGGATGGGCACATCTTGTGCAAGGCCT
GCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTCACCACTGACTGCTGAGTCTTCTAGAAAGTACCTGCTG
GGTTCTCAGTTCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACCAAAT
GCTGTCTTCTCTTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACACTTCCAAGTCTGTTGTCTCAT
CTGATTCTCCAGTAGCCCATACAGGCCCAGTCATTGTT

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FIGURE 2324

MSGPTWLPFKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGGPEDRGPAWVGSHGVL
QHTQGLPADRGGLRPGSLDAEIDLLSSTLAELNGGRGHASRRPDRQAYEPPPPPAYRTGSLKPNPASPLPASPYG
GPTPASYYTASTPAGPAFPVQVKVAQPVRGCGPFRRGASQASGPLPGPHFPLPGRGEVWGPGYRSQREFGPGAKE
EAAGVSGPAGRGRGGEHGPQVPLSQPPEDELDRLTKKLVHDMNHPPSGEYFGQCGGCGEDVVGDGAGVVALDRVF
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCVATLEKCATCSQPILDRILRAMGKAYHPGCFTCVVCHRGDLGI
PFTVDATSQIHCIEDFHRKFAPRCSVCGGAIMPEPGQEETVRIVALDRSFHIGCYKCEECGLLLSSEGECCQGCYP
LDGHILCKACSAWRIQELSATVTTC

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FIGURE 2325

GTCTTTTCCGGCCCCCGTGCACTCTCCGCCGAGCGGAGCCCCCGGCTCGCGGGGATCGCCCCGAGCGCTGCG
TCCTGCGGGTCACCTAACCCATTTGTGGCTTCCTCTACCTGTGCTCAGCCATGGCCAGCGAGAGCTCACCTCTGC
TGGCCTACCGGCTCCTGGGGGAGGAGGGGGTTGCCCTCCCTGCCAATGGGGCCGGGGGCTCTGGAGGGGCGTCTG
CCCGGAAGCTGTCCACCTTCCTGGGTGTGGTGGTGCCCACTGTCTGTCCATGTTTACGATAGTTGTTTTCTGA
GGATTGGGTTCGTGGTGGGTTCATGCTGGGCTACTGCAGGCCCTGGCCATGCTGCTGGTTGCCTACTTCATCCTGG
CACTCACCGTCTCTGTCTGTGCCATCGCCACCAATGGAGCCGTGCAGGGGGGCGGAGCCCTACTTCATGATCA
GCCGCACACTGGGGCCCGAGGTTCGGGGGAGCATTGGGGTTCATGTTTACCTGGCTAACGTCTGTGGCTGTGCCG
TCTCCCTCCTGGGGCTGGTGGAGTCTGTGCTTGATGTCTTCGGGGCCGAIGCCACAGGGGCCAGTGGGCTCCGGG
TCCTGCCCCAGGGCTACGGCTGGAACCTGCTGTATGGCTCCCTGCTGCTGGGCCCTTGTGGGTGGGGTCTGCACCC
TGGGAGCCGGCCTCTATGCCCGGGCCTCATTCCCTCACATTCCTGCTGGTCTCTGGCTCCCTGGCCTCTGTGCTCA
TCAGTTTGTGGCTGTGGGGCCGAGGGACATCCGCTTGACTCCTAGGCCTGGCCCCAATGGCTCCTCCCTGCCGC
CCCGTTTGGCCACTTCACCGGCTTCAACAGCAGTACCCTGAAGGACAACCTGGGCGCTGGCTATGCTGAGGACT
ACACCACGGGAGCCGTGATGAATTTTGCCAGCGTCTTTGCTGTCTCTTTAACGGCTGTACAGGCATCATGGCTG
GGGCCAACATGTACGGGAGCTGAAGGACCCAGCCGGGCGATCCCTCTGGGCACGATCGTCGCCGTGCGCTACA
CCTTCTTCGTCTATGCTCTGCTTTTCTTCTCTCCAGCTTCACTTGTGACAGGACCCTGCTGCAGGAAGACTATG
GGTCTTCCGCGCCATCAGCCTGTGGCCCCCACTGGTGTGATCGGAATCTATGCCACAGCGCTCTCAGCGTCCA
TGAGCTCGCTCATTGGTGCCCTCCCGCATCCTCCATGCCCTGGCCCGGGATGACCTCTTGGCGTGATCTTGGCAC
CGGCCAAGGTTGTGTCCCGAGGGGGAAACCCCTGGGCAGCTGTACTTTATTCTTGGGGCCTGGTGCAGCTGGTGC
TCCTGGCTGGGAAGCTGAACACACTGGCTGCTGTGGTCACTGTCTTCTACCTGGTGGCCTATGCTGCCGTGGACC
TGCTCTGCCTGAGCCTGGAGTGGGCCTCGGCCCCCACTTCGCCCCACCTTCAGCCTGTTCTCTGGCACACCT
GCCTGCTGGGGGTGGCCTCCTGCCTGCTCATGATGTTTCTCATCAGTCTTGGCGCGGCTGGTGGCTCCCTGCTCC
TCATGGGTCTGCTGGCTGCCCTGCTCACCGCGCGAGGAGGCCCCAGTAGCTGGGGCTATGTACAGCAGGCCCTTG
TTTTCCACCAAGGTGCGTAAGTATCTGCTTCGGCTGGACGTCCGGAAGGATCACGTGAAGTTCTGGCGGGCCAGC
TGCTGCTCCTGGTGGGGAACCCCGGGGCGCCCTGCCTCTGCTGCGGTGGCCAACCAAGCTTAAGAAGGGGGGGC
TGATGTGCTGGGCCACGTACCCTGGGAGACCTCGACTCCCTGCCCTCGGACCCTGTACAGCCGCGATATGGGG
CATGGCTCAGCCTGGTGGACCGTGGCCAGGTGAAGGCTTTTGTGGATCTAACCTCTCACCTCCGTGCGCCAGG
GGGCTCAGCATCTGCTGCGAATCTCCGGCCTCGGTGGCATGAAGCCCAACACGTTGGTCTAGGTTTCTACGATG
ACGCTCCACCGCAGGACCATTTCCTGACGGACCGGCTTTCTCTGAGCCTGCAGACAGCAGGAGGCGAGGCTT
CCCCAGCTCTGAGCACCCTGTTCCCTCCTCCCGGGCTCCTGGGAGCCCCGGGGCCTCAATCCCCAGGACTATG
TGGCCACGGTGGCCGACGCCCTCAAGATGAACAAGAATGTGGTGTGGCCCGGGCCAGCGGGCCTTGCCCCCTG
AGCGGCTGAGCCGGGGTCTGGGGGCACCTCTCAGCTGCACCATGTGGACGTGTGGCCCTCAACCTGCTGCGGC
CCCGGGGTGGGCCCGGCTATGTGGATGTCTGCGGCTCTTCTGCTGCAGATGGCAACCATCTTGGGCATGGTGC
CCGCTTGGCATAGCGCCCGGCTCCGATCTTCTGTGCTGGGGCCTCGGGAGGCGCCTGGGGCGGCGAGGGGC
GGCTGCGGGCACTGCTGAGCCAACCTGAGGATCCGGGCTGAGGTGCAGGAGGTGGTGTGGGCGAGGGGGCCGGG
CTGGGGAACCCGAGGCGGAGGAGGAAGGGGACTTTGTGAACAGTGGGCGGGGAGACGCAGAGGCAGAGGCCCTGG
CACGCAGCGCCAACGCCCTGGTTCGGGCCCAGCAGGGGCGCGGCACAGAGGAGGGCCGGTGGGCCGAGGGTG
GGGATGCTGAGGGCCCCATCACAGCCCTCACCTTCTGTACTTGCTCGGCCGCCAGCCGATCCCGCCGATACC
CCCGCTACCTGGCGCTACTGGAGACTCTAACCCGAGACCTGGGCCCCACGCTGCTGGTTCATGGGGTCACTCCAG
TCACCTGCACTGATCTGTGATGCCCTGCCTCCAGGGCTAGGTAGAGAGGGCCAGGCAGGCGGCTATCCTGAT
CCTTGGAGGAGGAGGAAGAGGAGGCCACTGTGGCCCGTGGCCCTGCCCTTGGGACGTGGAGCCAGGGGAGGTTT
GAAGGGGATCCTGGGCTTGGGCATCAGGCCACCTCCTTTGGCAGAGGGACCCAGCACACTAACTCTGGGTGGC
TGTCCCCACCGTGCAGGGGAGGAGTCCGCAGCCTCCTTCACTGCTGCTTGATGCTAGGGGCCAGGCCCTCCTC
TGTGACTCTGGGCTACCTCAGTTTCCCCATTTTGCCAGACTCACCGGCCACTGGGGTGGTGTATGTTTTCTGTT
TGTTTTATTTTCTAACTCTGCTGACCATGAATAAAGACCAAAACAC

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FIGURE 2326

GCGCGGGCAGGGCCGCACGAGCTGGCTGGCTGCTTGCACCCACATCCTTCTTTCTCTGGGACCTGGGGTCGCGGT
TACTTGGGCTGGCCGGCGAACCCTTGAGTGGCCTGGCGGGGAGCGGGCCTCGCGCGCCTGGAGGGCCCTGTGGAA
CGAAGAGAGGCACACAGCATGGCAGAAAACCGAGAGCCCCGCGGTGCTGTGGAGGCTGAACTGGATCCAGTGGAA
TACACCCCTTAGGAAAAGGCTTCCCAGCCGCTTGCCCCGAGACCCAATGACATTTATGTCAACATGAAGACGGAC
TTTAAGGCCCAGCTGGCCCGCTGCCAGAAGCTGCTGGACGGAGGGGCCCGGGGTGAGAACGCGTGCTCTGAGATC
TACATTACAGGCTTGGGCCTGGCCATCAACCACGCCATCAACATCGCGCTGCAGCTGCAGGCGGGCAGCTTCGGG
TCCTTGCAGGTGGCTGCCAATACCTCCACCGTGGAGCTTGTTGATGAGCTGGAGCCAGAGACCGACACACGGGAG
CCACTGACTCGGATCCGCAACAACCTCAGCCATCCACATCCGAGTCTTCAGGGTCACACCCAAGTAATTGAAAAGA
CACTCCTCCACTTATCCCCTCCGTGATATGGCTCTTCGCATGCTGAGTACTGGACCTCGGACCAGAGCCATGTAA
GAAAAGGCCTGTTCCTTGAAGCCCCAAAGGACTCTGCATTGAGGGTGGGGGTAAATTGTCTCTTGGTGGCCCAGTT
AGTGGGCCTTCCTGAGTGTGTGTATGCGGTCTGTAACATTGCCATATAAATAAAAAATCCTGTTGCACTAGTGT
CCTGCCAAA

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FIGURE 2327

MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVNMKTDFKAQLARCQKLLDGGARGQNACSEIYIHGLG
LAINHAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREPLTRIRNNSAIHIRVFRVTPK

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FIGURE 2328

GGAGGAAGACAGCGCCGCCCGCGCACCGCCAGCGACCTCCGCCGCAGAGTCCCACCGCCACAGGCCTCGGGCCAG
CGGCCAGGAGCTGCCTCCCCAGCCCCCGTCCCGCGGCCCCAGCCGCCCCAACCTGCCCCACGGGCCCGGCG
CCATGAGTGAGCTGGAGCAACTGAGACAGGAGGCCGAGCAGCTCCGGAACCAGATCCGGGATGCCCCAAAAGCAT
GTGGGGACTCAACACTGACCCAGATCAGAGCTGGGCTGGACCCAGTGGGGAGAATCCAGATGAGGACCCGGAGGA
CCCTCCGTGGGCACCTGGCAAAGATCTATGCCATGCACTGGGGGACCGACTCAAGGCTGCTGGTCAGCGCCTCCC
AGGATGGGAAGCTCATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCGCTGCGCTCCTCCTGGG
TAATGACCTGTGCCTACGCGCCCTCAGGGAACCTTTGTGGCTGTGGGGGGTTGGACAACATCTGCTCCATCTACA
GCCTCAAGACCCGCGAGGGCAACGTCAGGGTCAGCCGGGAGCTGCCTGGCCACACTGGGTACCTGTCGTGTTGCC
GCTTCCTGGATGACAACCAAATCATCACCAGCTCTGGGGATACCACTGTGCCCTGTGGGACATTGAGACAGGCC
AGCAGACAGTGGGTTTTGCTGGACACAGTGGGGATGTGATGTCCCTGTCCCTGGCCCCCGATGGCCGCACGTTTG
TGTCAGGCGCCTGTGATGCCTCTATCAAGCTGTGGGACGTGCGGGATTCCATGTGCCGACAGACCTTCATCGGCC
ATGAATCCGACATCAATGCAGTGGCTTTCTTCCCCAACGGCTACGCCTTCACCACCGGCTCTGACGACGCCACGT
GCCGCCTCTTCGACCTGCGGGCCGATCAGGAGCTCCTCATGTACTCCCATGACAACATCATCTGTGGCATCACCT
CTGTTGCCCTTCTCGCGCAGCGGACGGCTGCTGCTCGCTGGCTACGACGACTTCAACTGCAACATCTGGGATGCCA
TGAAGGGCGACCGTGCAGGAGTCTCGCTGGCCACGACAACCGCGTGAGCTGCCTCGGGGTCACCGACGATGGCA
TGGCTGTGGCCACGGGCTCCTGGGACTCCTTCCTCAAGATCTGGAATAATGGCCCCACCCCACTGGGCCAGG
CCAGGAGGGGCCCTGCCCATGCCCACACTACAGGCCAGGGCTGCGGGGCTGGCGCAATCCAGCCCCCTTCCCCG
GGCCACGGGGCCTTGGGTCCCTGCCCTCCCACCCAGTTTGGTTCCCTCCCGGGGCCCCCACTGTGGAGATAAGAA
GGGGATGGAATGGGGGAAGAGGAGGAGCAGGAGGCCCTCATCCTTCTGCTGCCCTGGGGTTGGGGCCTACCCCT
CTGGAGGGCCGGAGGCAGGAGGTGGAAACCCAGGGGCTGGCTTTTTTAAACTGGTTTTATTTTAATTTTTATT
ATATTTTCAGTTTTTCCATAAAGGAGCCAATTCCAACCTCTGT

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FIGURE 2329

ATCCTGCTGCTGCCGCCACCGCTGCTGCTGCTCTGCAAAATTCAGCTGCTGCCTCTGTCTTGAGGACCCAGCGC
CTTTCCCCGGGGCCATGCTGCCTGCAGCCACAGCCTCCCTCCTGGGGCCCCCTCCTCACTGCCTGCGCCCTGCTG
CCTTTTGCCCAGGGCCAGACCCCAACTACACCAGACCCGTGTTCTGTGCGGAGGGGATGTGAAGGGGGAATCA
GGTTACGTGGCAAGTGAGGGGTTCCCCAACCTCTACCCCCCTAATAAGGAGTGCATCTGGACCATAACGGTCCCC
GAGGGCCAGACTGTGTCCCTCTCATTCCGAGTCTTCGACCTGGAGCTGCACCCCGCCTGCCGCTACGATGCTCTG
GAGGTCTTCGCTGGGTCTGGGACTTCCGGCCAGCGGCTCGGACGCTTTTGTGGGACCTTCCGGCCTGCGCCCCTA
GTCGCCCCGGCAACCAGGTGACCTGAGGATGACGACGGATGAGGGCACAGGAGGACGAGGCTTCCTGCTCTGG
TACAGCGGGCGGGCCACCTCGGGCACTGAGCACCATTTCGCGGGGGCGGCTGGAGAAGGCCAGGGAACCCTG
ACCACGCCCAACTGGCCCCGAGTCCGATTACCCCCGGGCATCAGCTGTTCTTGCCACATCATCGCGCCCCGGAC
CAGGTCTATCGCGCTGACCTTCGAGAAGTTTGACCTGGAGCCGGACACCTACTGCCGCTATGACTCGGTACGCGTG
TTCAACGGAGCCGTGAGCGACGACTCCCGGAGGCTGGGGAAGTTCTGCGGCGACGCGAGTCCCGGGCTCCATCTCC
TCCGAAGGGAATGAAGTCCCTCGTCCAGTTCGTCTCAGATCTCAGTGTACCGCTGATGGCTTCTCAGCCTCCTAC
AAGACCCTGCCGCGGGGCACTGCCAAAGAAGGGCAAGGGCCCCGGCCCCAAACGGGGAAGTGAAGCTAAAGTCAAG
CTGCCCCCAAGTCCCAACCTCCGGAGAAAACAGAGGAATCTCCTTCAGCCCCCTGATGCACCCACCTGCCCAAAG
CAGTGCCGCGGACAGGCACCTTGACAGAGCAACTTCTGTGCCAGCAGCCTTGTTGGTGACTGCGACAGTGAAGTCC
ATGGTTCGGGAGCCAGGGGAGGGCCTTGCCGTGACTGTGAGTCTTATTGGTGCTTATAAACTGGAGGACTGGAC
CTGCCCTTCTCACCCACTGGTGCCCTCCCTGAAGTTTTACGTGCCTTGCAAGCAGTGCCCCCATGAAGAAAGGA
GTCAGTTATCTGCTGATGGGCCAGGTAGAAGAGAACAGAGGCCCCGTCTTCTCCAGAGAGCTTTGTGGTTCTC
CACCGGCCCAACCAGGACCAGATCCTCACCAACCTAAGCAAGAGGAAGTGCCCTCTCAACCTGTGCGGGCTGCT
GCGTCCCAGGACTAGAGACGCAGGCCAGCCCCGGCCCCCTAGCCCTCAGGCCTTCTTTCTTATCCAAATAAATGTTT
CTTAATGA

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FIGURE 2330

MLPAATASLLGPLLTAALLPFAQGQTPNYTRPVFLCGGDVKGESGYVASEGFNLYPPNKECIWTITVPEGQTV
SLSFRVFDLELHPACRYDALEVFAGSGTSGQRLGRFCGTFRPAPLVAPGNQVTLRMTTDEGTGGRGFLWYSGRA
TSGTEHQFCGGRLEKAQGTLTTPNWPESDYPPGISCSWHIIAPPDQVIALTFEKFDLEPDYCRYDSVSVFNNAV
SDDSRRLGKFCGDAVPGSISSEGNELLVQFVSDLSVTADGFSASYKTLPRGTAKGQGPGRGTPEPKVKLPKPS
QPPEKTEESPSAPDAPTCPKQCRRTGTLQSNFCASSLVVTATVKSMVREPGEGLAVTVSLIGAYKTGGDLPSPP
TGASLKFYVPCKQCPPMKKGVSYLLMGQVEENRGPVLPPESFVVLHRPNQDQILTNL SKRKCPSPVRAAASQD

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FIGURE 2331

GGAGAGGCAGAGACCCAGGGGAGCCGAGGAGCGGAGACACGGACCCAGCAGGGTCACGCGGGAGGAGACTCGGGA
CACCCTACTCGCTGGCTGCCACCGGGAGCAGAGGGGGGCTCGGCCGCCCCCTCCCACATCAGTCTCCAGACCCTTG
GGGCTTCAGAGGCCGCTCCTAGGCTCCTCGGAGGAGCGCGGGTTTCTTCTTTTCCGGAGAGCAAACCTTTCTCTCG
GAGATGCCTGGCAGGATGAGCCGCGGCCCGGAGAGGACGGGACAGCCTCTGATCGCCGCTGCGTGCCCCGCC
ACTGCCCATGGCCAGGAGGCCCGAGGGAACGGACAGCCCGACCTCTTAGGCGCCGGGACCCTCAGGCTCAGATCA
GTGGCCGAGGCCCCAGAGTTTGCAAACCTCAGCTCTGGAGTTCAGCAGCAACAGCAGCAGGAAAAACCTGCCCTG
CTCCCCCTCCCGCCACCTCCCTCTCTCTTCTCCCTCAGCCAGCAGGCACCCCCGGTTCCCGCCAGGCCCTC
CTGCCATGTGCGACCCAGACGTCCCCAGGGGCTCGGATGTCCCCGCCATGTGGCCCCCTTGTTCCAGGGGTGCCT
GAGCCCCCTCAAGGAGCCCCAACCCACCCCAACCTTGGCCAGCCCTGAGCCCCAGGGACCATGAGCGGGGGCA
AGAAGAAGAGTAGTTTCCAAATCACCAGCGTCACCACGGACTATGAGGGCCCTGGGAGCCCAGGGGCTTCGGATC
CCCCCTACCCACAGCCCCAACCGGGCCCCCGCCCCGCCTGCCAATGGGGAGCCCAGCCCCGATCCGGGGGGCA
AGGGCACCCCCCGGAATGGCTCCCCACCACCTGGGGCCCCCTTCTCCCGTTTCCGGGTGGTGAAGCTGCCCCACG
GCCTGGGAGAGCCTTATCGCCGCGGTGCGTGGACGTGTGTGGATGTTTATGAGCGAGACCTGGAGCCCCACAGCT
TCGGCGGACTCCTGGAGGGAATTCGAGGGGCTCAGGGGGCGCCGGGGGCGAGATCTTTGGATTCCAGGTTGGAGC
TGGCCAGCCTCGGCCTGGGCGCCCCACCCACCGTCAGGCCTGTCTCAGGGCCCCACCTCCTGGCTCCGTCCAC
CCCCACCTCTCCTGGACCTCAGGCCGCTCCTTCACTGGGGGACTGGGCCAGCTGGTGGTGCCAGCAAAGCCA
AGGCAGAGAAACCCCCACTGTGCGCCTCCTCAGCCAGCAGCGCCCCCAGAGCCTGAGACCGGTGAGAGTGCGG
GCACATCCCGGGCTGCCACGCCCCCTGCCCTCTCTGAGGGTGGAAGCGGAGGCTGGGGGCTCAGGGGCCAGGACCC
CTCCACTGTCCCGGAGGAAAGCTGTAGACATGCGGCTGCGGATGGAGTTGGGTGCTCCAGAAGAGATGGGGCAGG
TGCCCCCACTTGACTCTCGCCCCAGCTCCCCAGCCCTCTACTTACCCACGATGCCAGCCTGGTTCACAAATCTC
CAGACCCCTTCGGAGCAGTAGCAGCTCAGAAGTTCAGCCTGGCCCACTCCATGTTGGCCATCAGTGGTCACCTAG
ACAGCGACGATGATAGTGGCTCCGGAAGCCTGGTTGGCATTGACAACAAAATCGAGCAAGCCATGGACTTGGTGA
AGTCCACCTCATGTTTGCGGTCCGGGAGGAGGTGGAGGTGCTGAAGGAGCAGATCCGGGAACCTGGCGGAGCGGA
ACGCTGCGCTGGAGCAGGAGAATGGGCTGCTGCGCGCCCTGGCCAGCCCGGAGCAGCTGGCTCAGCTGCCCTCCT
CGGGGGTCCCACGGCTTGGGCCCCCTGCGCCCAATGGGCCCTCCGTCTGAGCCTCCCTTCCCTTACAATGTGCCT
TTGGGGCTGCCCCGCCTTGGCTCAGCCGCTGCCCCCTCTTCTATGCAGCTTTAATGTCCCCGTGTCGCCGGG
TGGGAGTTCAAGGCTCAGTAATGGCCTGGTCCCCCGGCCCTGCCCATCTCCTCATCATCCCCAGCCTTGATGG
AGGAGGGAGGGCTTCAGGACGGGGCGTCAGAGGGAGCCCCCTCTGGGAGGGAACCAACCCCCACCTCCCTCCTG
GGACCCCCCAGCAGTAGACGGCTTGGGGGAGTCGGAGGCTCCCCGGCAGACACCCACCCCCATCTTGTTCCTT
GAGGTGCCTCCTCTCCTGCCCAGGGGAGGGAGTGTGGACAGTATCTGGAAGTTCTGGGATTAGGTGTTATT
AAAATAATAATAATAATTAATACTCTGAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2332

MSGGKKKSSFQITSVTTDYEGPGSPGASDPPTPQPPTGPPRLPNGEPSDPGGKGTPRNGSPPPGAPSSRFV
KLPHGLGEPYRRGRWTCVDVYERDLEPHSFGLLEGIRGASGGAGGRSLDSRLELASLGLGAPTPPSGLSQGPTS
WLRPPPTSPGPQARSFTGGLGQLVVPSKAKAEKPPLSASSPQQRPEPETGESAGTSRAATPLPSLRVEAEAGGS
GARTPPLSRRKAVDMRLRMELGAPEEMGQVPPLDSRPSSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMIAI
SGHLDSDDDSGSGSLVGIDNKIEQAMD LVKSHLMFAVREEVEVLKEQIRELAERNAALEQENGLLRALASPEQLA
QLPSSGVPRLGPPAPNGPSV

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FIGURE 2333

ATTTAACTCCCAGAGCCGTTAAGTTGGTTTCGTAGTCTGATGCGCGCGCAACCAGGGTGGTGGCGGAGTGCGCAT
GCGTGGTTCCGGGGCGAAGGGAACGCGCGCTCACCCTGCGCGCTCGCGGCCGGGTGGTAGTGGCGGAGGAGAAAG
GGGTGCGCGCACGCGCGTTGAGTCTCGAGTAGTTCGGGTCTCGCGGGCCTCTTGTGTTTGGTCTCGCGGGCTAG
TAGGGCGCACTTGCGCGGGAGGCGCTTGGGCGCGAGACTAGGCGTGAAGAGCAGAGCTGCGCGCGCACTCGGGAA
AGGGGGGAAGGGAGCAGGGTCCAGGCAGGGGGGGTTAGGCCCCCTGATCCCCCTCGTTACCCCGACTGGCACGGA
ATAAGGGGAGGAAATGATCGAGATGGCGGCGGAGAAGGAGCCGTTTCTGGTGCCGGCCCCGCCGCCGCCGCTCAA
AGATGAGTCGGGCGAGGGGGCGGCCACCGTGCACCCGACCAAGAGGCCCTCTGGGGAGCTCCGCGGCGG
GACGGAGCGTGGTCCGGGTCGTTGCGCGCCATCTGCGGGGTCCCCAGCCGCTGCGGTGGTGGGAAAGCCCCGG
GGCCGCGGCCACCTCCTCCAGTGGTCCCCAGGCGCAGCAGCACCAGGGGGCGGCCCCAGGCGCAGTCGCATGG
GGAGGCCCGCCTGTCGGATCCCCCGGGCGAGCCGCTCCCCCGACGTGGGGGAGGAGCGCCGGGGAGGGGGCGG
GACAGAGCTGGGTCCCCCTGCTCCTCCTCGACCCCGCAATGGCTATCAGCCCCACCGGCCACCTGGGGGGGGCGG
GGGCAAGAGGAGAAATAGCTGTAATGTAGGGGGAGGCGGGGGAGGCTTCAAACATCCGGCCTTCAAGAGGCGCAG
GCGGGTGAATTGCGACTGTGACTCTGTGTTACCTTCCAACTTCTCCTGGGGGGCAATATCTTTGATCCCTGAA
CCTGAATAGCCTCCTGGATGAGGAAGTGAGCCGCACTCTCAACGCGGAGACCCCTAAGTCATCCCCCTTCCGGC
CAAAGGGCGAGATCCGGTGGAGATCCTCATCCCCAAAGATATTACTGACCCGCTCAGTCTCAATACTTGCATGA
TGAGGGCCATGTAGTTCTTGCTTCGCCACTCAAGACTGGTGGGAAGCGGCATAGACACCGGGGACAGCACCACCA
GCAGCAGCAGGCAGCCGGAGGGAGTGAGAGCCACCCCGTGCCGCCCACAGCCCTCTCACCCCTTACTCCACGG
GGAGGGCGCCTCACAGCAGCCGCGGCACAGGGGCCAGAACCGGGATGCCCCCAACCCTATGAACTCAACACAGC
CATCAACTGCAGGGATGAAGTGGTGTCTCCCTTCCATCTGCTCTGCAGGGTCCCTCAGGCTCCCTATCAGCCCC
TCCAGCTGCCTCAGTTATCTCTGCACCCCCATCTTCTCCTCCCGACATCGCAAACGTGCGAGGACTTCCAGCAA
GTCCGAGGCAGGGGCTAGGGGTGGAGGCCAGGGTTCCAAGGAAAAGGGCCGAGGGAGTTGGGGAGGCCGCCACCA
CCACCACCACCCACTGCCTGCAGCAGGCTTCAAAAAGCAACAGCGCAAGTCCAGTATGGGAATTATTGCAAATA
CTATGGGTACCGCAATCCTTCTGTGAGGATGGGCGCCTTCGGGTGTTGAAGCCTGAGTGGTTTCGGGGCCGGGA
CGTCCTAGATCTGGGCTGCAATGTGGGCCATCTGACCCTGAGCATTGCCTGCAAGTGGGGCCCGTCCCGCATGGT
GGGCTGGATATCGATTCCCGGCTCATCCATTCTGCCCGCCAAAACATCCGACACTACCTTTCGAGGAGCTGCG
TCTCCACCCAGACTTTGGAAGGGGACCCGGGGCAGAGGGTGAGGAAGGGACCACCAGCTCGAAAGAGGAG
CTGCTTCCAGCCTCGCTGACTGCCAGCCGGGGTCCCATCGCTGCCCCCCAAGTGCCCTTGATGGAGCGGACAC
ATCAGTCTTCCCAACAATGTTGTCTTCGTCACGGTAATTATGTGCTGGATCGAGATGACCTGGTGGAGGCCCA
AACACCTGAGTATGATGTGGTGCTCTGCCTCAGCCTACCAAGTGGGTGCATCTGAACTGGGGAGACGAGGGCCT
GAAGCGCATGTTTCGCCGATCTACCGGCACCTACGCCCTGGGGGCATCTGGTCTAGAGCCCCAACCTTGGTC
GTCGTATGGCAAGAGAAAGACTCTTACAGAAACGATCTACAAGAACTACTACCGAATCCAATTGAAGCCAGAGCA
GTTCACTTCTACCTGACATCCCCAGACGTGGGCTTCTCCAGCTATGAGCTTGTGGCCACACCCACAACACCTC
TAAAGGCTTCCAGCGTCTGTGTACCTGTTCCACAAGGCCCGATCCCCAGCCACTAAGTGGCCCCCTAAACAGA
AAGTGTGAAGAGGCTGCCCTCGCTGCTCATAAGGACCTGGGGGAAGAGGAAAGTGTCCAAGGCTTTTCTTTCT
GACTCCAAAATAGTTTCTTTCTTGGATCTGAAAGAAAGCTTTTCTTCCGTGCTGCCTCAGCTCCTCCTCCTA
TGCTCTGGCACCTGCGCAGCAAGGCTGGCTGTGCTGGAGTACCATCATCTTCTCTCCCCAGCCTCCCAGGC
TGGATGGCATGGACTGTTTGCTGACCTCTGTTCTTTAGGGCATGGGAGGTGGGAGGATATCAAATTTCTTAGCC
CTTTCTCCTATTCTCTAGCCCTTCTATTCTCCCAAGGAGAGAGATTCCATTCTCTCGGCCATTGTACCTAG
CTCTTGTCCCTAGCTGCATTTCACTGGACCATGGATAGAGGGACTGAGGGTTAGACGGAGAAGACTGGCAGGGAG
GCACGCAGGTACTGTGAAAATCCTTCCCTTTGCCCTCCCCAGTGGGAGAGGGGGTTGGGTTTTCAATGTGAGAA
CAGCACAATAAATTTGATGTCTAGGGCAGTGGCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2334

MVGLDIDSRLIHSARQNIRHYLSEELRLPPQTLEGDPGAEGEGTTTVRKRSCFPASLTASRGPIAAPQVPLDGA
DTSVFPNNVVFVTGNYVLDRDDLVEAQTPEYDVVLCLSLTKWVHLNWDGLKRMFRRIYRHLRPGGILVLEPQP
WSSYGKRKTLTETIYKNYYRIQLKPEQFSSYLTPDVGFSSYELVATPHNTSKGFQRPVYLFHKARSPSH

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FIGURE 2335

GGCACGAGGGGAAGTGGCTGTTTGGCTGCTGACAACATGAAGACTTCCTGCCGATGAGAACAGAGGCACAGGTGCC
GGCCCTGCAGCCCCCAGAACCTGGACTGGAGGGGGCCATGGGGCACCGGACCCTGGTCCTGCCCTGGGTGCTGCT
GACCTTGTGTGTCAGTGCAGGGGACCCCGGAGGTGTGGGTTCAGTTTCGGATGGAGGCCACCGAGCTCTCGTCCTT
CACCATCCGTTGTGGGTTCCCTGGGGTCTGGCTCCATCTCCCTGGTGAAGTGTGAGCTGGGGGGGGCCCCGACGGTGC
TGGGGGGACCACGCTGGCTGTGTGTCACCCAGAACGTGGCATCCGGCAATGGGCCCTGCTCGCCAGGCCCCGCTG
GGAAACCCAGAGCAGCATCTCTCATCCTGGAAGGCTCTGGGGCCAGCAGCCCCCTGCGCCAACACCACCTTCTG
CTGCAAGTTTTCGCTCCTTCCCTGAGGGCTCCTGGGAGGCTGTGGGAGCCTCCCGCCCAGCTCAGACCCAGGGCT
CTCTGCCCCGCCGACTCCTGCCCCATTCTGCGGGCAGACCTGGCCGGGATCTTGGGGGTCTCAGGAGTCCTCCT
CTTTGGCTGTGTCTACCTCCTTCATCTGCTGCGCCGACATAAGCACCGCCCTGCCCTAGGCTCCAGCCGTCCCG
CACCAGCCCCCAGGCACCGAGAGCAGCAGCATGGGCACCAAGCCAGGCTCCAGGCTGCTCTTCACGTCCCTTA
TGCCACTATCAACACCAGCTGCCGCCAGCTACTTTGGACACAGCTCACCCCATGGGGGGCCGTCCTGGTGGGC
GTCACCTCCCCACCCACGCTGCACACCGGCCCCAGGGCCCTGCCGCCCTGGGCCTCCACACCCATCCCTGCACGTGG
CAGCTTTGTCTCTGTTGAGAATGGACTCTACGCTCAGGCAGGGGAGAGGCCTCCTCACACTGGTCCCGGCCTCAC
TCTTTTCCCTGACCCTCGGGGGCCCCAGGGCCATGGAAGGACCCTTAGGAGTTCGATGAGAGAGACCATGAGGCCA
CTGGGCTTTCCCCCTCCAGGCCTCCTGGGTGTCTATCCCTTACTTTAATTCTTGGGCCTCCAATAAGTGTCCCA
TAGGTGTCTGGCCAGGCCCACCTGCTGCGGATGTGGTCTGTGTGCGTGTGTGGGCACAGGTGTGAGTGTGTGAGT
GACAGTTACCCCATTTAGTCATTTCTGCTGCAACTAAGTCAGCAACACAGTTTCTCTGAAAAAAAAAAAAAA
AAAA

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FIGURE 2336

MRTEAQVPALQPPEPGLEGAMGHRTLVLFPVLLTLCVTAGTPEVWVQVRMEATELSSFTIRCGFLGSGSISLVTV
SWGGPDGAGGTTLAVLHPERGIRQWAPARQARWETQSSISLILEGSGASSPCANTTFCKKFASFPEGSWEACGSL
PPSSDPGLSAPPTPAPILRADLAGILGVSGVLLFGCVYLLHLLRRHKHRPAPRLQPSRTSPQAPRARAWAPSQAS
QAALHVPYATINTSCRPATLDTAHPHGGPSWWASLPTHAAHRPQGPAAWASTPIPARGSFVSVENGLYAQAGERP
PHTGPGLTLFPDPRGPRAMEGPLGVR

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FIGURE 2337

AAGGGTCTAGGATACAGTCTTTGTAGATGAGCGGGTCCCCCTTGGAGGACAGAATGAAGAATTGGGAAATCATGG
CCGTTTCTGGAGAGTAGACAAGAAGACGGCGAAAGTCGGGCCTGCCCCGCCCTGCGGCCCCGGAACAAAAGAACGC
GTGTGCGCTGGCCCTTTAAGAGCGATTCTCCTCCGCCCGCGCCAGCTCGGACCGCGGGAAACCCGGCGCCTGCAC
TACCCCGCCCCGAGATTCCCTTCCGACGCCCCGACCGCCTCCCCGTCACTCATTCTAGGCCCGCACGGTGATTGG
CTTGCGGCTAGCGGGAGGTGAAGAAGGCCGCCCTTGTCCGATTGGCCCCGACGAGTGGCGCCGGTCACGTGGGGG
GCGACGTTTTCGCGCCAATTTTCGTTTGGCCGGCCACAGTCCACCGCGCGGAGATTCTCAGCTTCCCCAGGAGCAAG
ACCTCTGAGCCCGCCAAGCGCGGCCGACGGCCCTCGGCAGCGATGGCACTGAAGGACTACGCGCTAGAGAAGGA
AAAGGTTAAGAAGTTCTTACAAGAGTTCTACCAGGATGATGAACTCGGGAAGAAGCAGTTCAAGTATGGGAACCA
GTTGGTTTCGGCTGGCTCATCGGGAACAGGTGGCTCTGTATGTGGACCTGGACGACGTAGCCGAGGATGACCCCGA
GTTGGTGGACTCAATTTGTGAGAATGCCAGGCGCTACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCC
TCAGTACAAGGAGAGGGAAGTGGTAAATAAAGATGTCCTGGACGTTTACATTGAGCATCGGCTAATGATGGAGCA
GCGGAGTCGGGACCCCTGGGATGGTCCGAAGCCCCCAGAACCAGTACCTGCTGAACCTCATGCGCAGATTGTGAGT
GGTCTCTGTGCGGAAAGATGTAGGGATTGGTTCTCCAGGATCTTGTGTTGTGACTGTTTTCTCCCTTAGTGAGCT
GTATTTTCAAGGCCCTAGCAGCAACAAGCCTCGTGTGATCCGGGAAGTGGCGGCTGACTCTGTGGGGAAGTTGGT
AACTGTGCGTGGAAATCGTCACTCGTGTCTCTGAAGTCAAACCCAAGATGGTGGTGGCCACTTACACTTGTGACCA
GTGTGGGGCAGAGACCTACCAGCCGATCCAGTCTCCCACTTTCATGCCTCTGATCATGTGCCCAAGCCAGGAGTG
CCAAACCAACCGCTCAGGAGGGCGGCTGTATCTGCAGACACGGGGCTCCAGATTTCATCAAATCCAGGAGATGAA
GATGCAAGAACATAGTGATCAGGTGCCTGTGGGAAATATCCCTCGTAGTATCACGGTGTGGTAGAAGGAGAGAA
CACAAGGATTGCCAGCCTGGAGACCAGCTCAGCGTCACTGGTATTTTCTTGCCAATCCTGCGCACTGGGTTCCG
ACAGGTGGTACAGGGTTTACTCTCAGAAACCTACCTGGAAGCCCATCGGATTGTGAAGATGAACAAGAGTGAGGA
TGATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGAGGATTTCTACGAAAAGCT
GGCAGCTTCAATCGCCCCAGAAATATACGGGCATGAAGATGTGAAGAAGGCACTGCTGCTCCTGCTAGTCGGGGG
TGTGGACCAGTCTCCTCGAGGCATGAAAATCCGGGGCAACATCAACATCTGTCTGATGGGGGATCCTGGTGTGGC
CAAGTCTCAGCTCCTGTGCATACATTGATCGACTGGCGCCTCGCAGCCAGTACACAACAGGCCGGGGCTCCTCAGG
AGTGGGGCTTACGGCAGCTGTGCTGAGAGACTCCGTGAGTGGAGAACTGACCTTAGAGGGTGGGGCCCTGGTGTCT
GGCTGACCAGGGTGTGTGCTGCATTGATGAGTTCGACAAGATGGCTGAGGCCGACCGCACAGCCATCCACGAGGT
CATGGAGCAGCAGACCATCTCCATTGCCAAGGCCGGCATTCTCACCACACTCAATGCCCCGCTGCTCCATCCTGGC
TGCCGCCAACCCTGCCTACGGGCGCTACAACCCTCGCCGAGCCTGGAGCAGAACATACAGCTACCTGCTGCACT
GCTCTCCCGGTTTGACCTCCTCTGGCTGATTCAAGGACCGGCCGACCGAGACAATGACCTACGGTTGGCCCAGCA
CATCACCTATGTGCACCAGCACAGCCGGCAGCCCCCTCCAGTTTGAACCTCTGGACATGAAGCTCATGAGGCG
TTACATAGCCATGTGCCGCGAGAAGCAGCCCATGGTGCCAGAGTCTCTGGCTGACTACATCACAGCAGCATACGT
GGAGATGAGGCGAGAGGCTTGGGCTAGTAAGGATGCCACCTATACTTCTGCCCGGACCCCTGCTGGCTATCCTGCG
CCTTTCCACTGCTCTGGCAGCTCTGAGAATGGTGGATGTGGTGGAGAAAGAAGATGTGAATGAAGCCATCAGGCT
AATGGAGATGTCAAAGGACTCTCTTCTAGGAGACAAGGGGCAGACAGCTAGGACTCAGAGACCAGCAGATGTGAT
ATTTGCCACCGTCCGTGAACCTGGTCTCAGGGGGCCGAAGTGTCCGGTTCTCTGAGGCAGAGCAGCGCTGTGTATC
TCGTGGCTTACACCCGCCCAGTTCCAGGCGGCTCTGGATGAATATGAGGAGCTCAATGTCTGGCAGGTCAATGC
TTCCCGGACACGGATCACTTTTGTCTGATTCCAGCCTGCTTGCAACCCTGGGGTCTCTTGTTCCTGCTGGCCT
GCCCCCTGGGAAGGGGCAGTGATGCCTTTGAGGGGAAGGAGGAGCCCCCTCTTTCTCCCATGCTGCACTTACTCCT
TTTGCTAATAAAAGTGTGTTGTAGATTGTCTCTTAGCCTGGGCTGACTTCCATTAAAACAGGGTTTTGTGCG
TTTTTTAGATTCTGTTCGTTTTTATGCTATTTTCATCCACTCAGTAAATTACCTGAGTAAAGTGCATCTCCCTGC
CAGGCCCCCAGTATAGACACTGGGGATCGGCAAGGACTAAGCGGTCCCTGCTGTTTGGAGATACTTAAGATGGG
GCTCCACTTTTTGAGCCCCCGACTCCCT

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FIGURE 2338

GGCACGAGGGGAAAAATGGCGGCGGCGGCGGCGGCGGCTGCAGCTACGAACGGGACCGGAGGAAGCAGCGGGATGG
AGGTGGATGCAGCAGTAGTCCCCAGCGTGATGCGCCTGCGGAGTGACTGGGAGTGTTTCCGTGCTCTCCATCCCC
TTGTCATTCTCAACATCTCAGACCACTGGATCCGCATGCGCTCCCAGGAGGGGCGGCCTGTGCAGGTGATTGGGG
CTCTGATTGGCAAGCAGGAGGGCCGAAATATCGAGGTGATGAACTCCTTTGAGCTGCTGTCCACACCGTGGAAG
AGAAGATTATCATTGACAAGGAATATTATTACACCAAGGAGGAGCAGTTTAAACAGGTGTTCAAGGAGCTGGAGT
TTCTGGGTTGGTATACCACAGGGGGGCCACCTGACCCCTCGGACATCCACGTCCATAAGCAGGTGTGTGAGATCA
TCGAGAGCCCCCTCTTTCTGAAGTTGAACCCTATGACCAAGCACACAGATCTTCCTGTCAGCGTTTTTGAGTCTG
TCATTGATATAATCAATGGAGAGGCCACAATGCTGTTTGCTGAGCTGACCTACACTCTGGCCACAGAGGAAGCGG
AACGCATTGGTGTAGACCACGTAGCCCGAATGACAGCAACAGGCAGTGGAGAGAACTCCACTGTGGCTGAACACC
TGATAGCACAGCACAGCGCCATCAAGATGCTGCACAGCCGCGTCAAGCTCATCTTGAGTACGTCAAGGCCTCTG
AAGCGGGAGAGGTCCCCCTTTAATCATGAGATCCTGCGGGAGGCCTATGCTCTGTGTCACTGTCTCCCGGTGCTCA
GCACAGACAAGTTCAAGACAGATTTTATGATCAATGCAACGACGTGGGGCTCATGGCCTACCTCGGCACCATCA
CCAAAACGTGCAACACCATGAACCAAGTTTGTGAACAAGTTCAATGTCTCTACGACCGACAAGGCATCGGCAGGA
GAATGCGCGGGCTCTTTTTCTGATGAGGGTACTTGAAGGGCTGATGGACAGGGGTCAGGCAACTATCCCAAAGGG
GAGGGCACTACACTTCCTTGAGAGAAACCGCTGTCATTAATAAAAGGGGAGCAGCCCCTGAGCACCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2339

MACGVTGSVSVALHPLVILNISDHWIRMRSQEGRPVQVIGALIGKQEGRNIEVMNSFELLSHTVEEKIIDKEYY
YTKEEQFKQVFKELEFLGWYTTGGPPDPSDIHVHKQVCEIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEAT
MLFAELTYTLATEEAERIGVDHVARMTATGSGENSTVAEHLIAQHSIAKMLHSRVKLILEYVKASEAGEVFPNHE
ILREAYALCHCLPVLSTDKFKTDFYDQCNDVGLMAYLGTTTKCNTMNQFVNKFNVLVLYDRQGIGRRMRGLFF

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FIGURE 2340

GCTTCCGGCACGGGATGTTTTTCGGTTGTTTGACCGAGAGAGTTGTAGGCGCAAAGCTGAGGAAAGGAGAGTGTGG
AGAGGGGCCTGGTGTGGTGGGGCCCGGTGTTTGGGACCGGAGGGTGTGACGGCTGATGAGTTCCTTGGGTTTGC
TCTTTCTTACCTGAAAAGAAGACTCCAGGAAGGGCAGCACATGCCGGAGAAAAGATGAATTGCAGCTTGACCGCC
CAGAGGGCGCGCAGTGACGCCGAGTTGGGACCTGGGTGATGGCTGCGAGGTCCAAGGACGCGGCGCCGTCCCAA
CGCGACGGACTTTTGGCCGTGAAAGTGGAGGAAGACTCACCCGGAAGTTGGGAGCCCAACTATCCCGCGGCTTCG
CCGGACCCCGAACTTCTCGACTGCACTTTAGGCAGCTGCGTTACCAGGAGGTGGCTGGACCGGAAGAGGCGCTG
AGCCGGCTCCGAGAACTCTGTCGTGGTGGCTGAGACCCGAGCTGCTCTCCAAGGAGCAGATCCTGGAGCTGCTG
GTGCTGGAGCAGTTTCTTACCATCCTGCCCCGAGGAGCTTCAAGCCTGGGTGCGAGAGCACTGCCAGAGAGCGGG
GAGGAGGCGGTGGCCGTGGTGGCGGCTCTGCAGCGAGCGCTCGATGGAACCTCATCCAGGGGATGGTGACTTTC
GAGGACACGGCTGTGTCTCTAACCTGGGAGGAGTGGGAGCGCCTGGACCCAGCACGGAGGGACTTCTGCAGAGAG
AGTGCAGCAGAGGATTCCGGGAGCACAGTTCCGCCGAGTTTGGAAAGCAGAGTGGAGAACAAAGAGTTGATTCCA
ATGCAACAAATTTTAGAAGAAGCGGAGCCACAGGGGCAACTACAAGAAGCGTTCCAGGGGAAGCGCCCCCTGTTT
TCTAAGTGTGGCAGTACCCATGAGGACAGGGTGGAAAAGCAGTCCGGAGACCCCTTGCCCTGAACTTGAAAT
TCTCTGAAGCAGAAGGACTCAACAGCATCTCAGATGTCAATAAGAATGGTTCATAGAAGGGGAAGACTCTAAA
AATAATGAATTGCAGAACAGTGCCAGGTGTTCCAACCTTGTTCTATGTCAGCACATCCCGAAAGCAGAGAGGCCC
ACTGACAGTGAGGAACACGGGAACAAGTGCAAGCAAAGTTTCCACATGGTGACGTGGCACGTGCTGAAACCTCAC
AAGTCTGACAGTGGAGACAGTTTCCATCATTCCAGCCTTTTGGAGACCCAGAGGCAGCTCCATGAAGAAAGACCT
TATAAATGTGGTAACTGTGGGAAGAGTTTCAAACAACGCTCTGACCTCTTTAGACACCAGAGAATCCACACAGGT
GAGAAACCCCTATGGCTGCCAAGAATGTGGGAAAAGCTTCAGCCAGAGTGCTGCCCTGACCAAGCACCAGAGGACA
CACACAGGCGAGAAGCCGTACACCTGTCTGAAATGTGGGGAGCGCTTCAGGCAGAATTCACACCTAAATCGTCAT
CAAAGTACCCACAGTAGAGACAAACATTTTAAATGTGAGGAATGCGGGGAAACCTGTATATTTCCAACCTTTTT
AGACATCAGAGACTACATAAAGGGGAAAGACCCTATAAGTGTGAAGATGCGAGAAGAGCTTCAAACAGCGCTCT
GACCTCTTTAAACACCACAGAATCCACACTGGGGAGAAGCCCTATGGATGTTCCGTCTGTGGGAAACGCTTCAAT
CAGAGTGCAACCCCTATTAAACACCAGAGAATTCACACTGGGGAAAAGCCTTACAAATGTCTTGAATGTGGGGAA
AGATTTAGACAAAGTACACACCTTATCCGACACCAAAGAATTCATCAAAATAAAGTGCTGTGCGCTGGGCGTGGT
GGCTCACGCCTATTAATCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTGAGATCAGGAGTTTGAAACCAG
CCTGGCCAACATGGTGAAATTTCTGTCTCTACTAAAAATACAAAATGAGCCGGGCATGGTGGTGCATGCCTGTAA
GCCCAGCTATTCCGGAGGCTGAGGTAGGAGAATCACTTGAACCCAGGAGCGGAAGTTGCAGTGAGCTGAGATCA
TGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAGAAATAAAGTGCTGTCAATTTTGAT
ATGTT

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FIGURE 2341

MNCSLTAQRRGSDAELGPWVMAARSKDAAPSQRDGLLPVKVEEDSPGSWEPNYPAAASDPETSRLHFRQLRYQEV
AGPEEALSRLRELCRRWLRPELLSKEQILELLVLEQFLTILPEELQAWVREHCPESGEEAVAVVRALQRALDGTS
SQGMVTFEDTAVSLTWEWERLDPARRDFCRESAQKDSGSTVPPSLESRVENKELIPMQQILEEAEPQGQLQEAF
QGKRFLFSKCGSTHEDRVEKQSGDPLPLKLENSPEAEGLNSISDVNKNKSIEGEDSKNNELQNSARCSNLVLCQH
IPKAERP TDSEEHGNKCKQSFHMTWHVLKPHKSDSGDSFHSSLFETQ RQLHEERP YKCGNCGKSFKQ RSDLFR
HQR IHTGEKPYGCQECGKSF SQAALTKHQR THTGEKPYTCLKGERFRQNSHLNRHQSTHSRDKHFKCEEGET
CHISNLF RHQRLHKGERPYKCEECEKSFKQ RSDLFKHHRIHTGEKPYGCSVCGKR FNQ SATLIK HQR IHTGEKPY
KCLECGERFRQSTHLIRHQRIHQNKVLSAGRGG SRL

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FIGURE 2342

GGGCACAGCGGACACCAGGACTCCAAAATGGCGTCAGTTGGTGAGTGTCCGGCCCCAGTACCAGTGAAGGACAAG
AAACTTCTGGAGGTCAAAC TGGGGGAGCTGCCAAGCTGGATCTTGATGCGGGACTTCAGTCCTAGTGGCATTTC
GGAGCGTTTCAAAGAGGTTACTACCGGTACTACAACAAGTACATCAATGTGAAGAAGGGGAGCATCTCGGGGATT
ACCATGGTGCTGGCATGCTACGTGCTCTTTAGCTACTCCTTTTCCTACAAGCATCTCAAGCACGAGCGGCTCCGC
AAATACCACTGAAGAGGACACACTCTGCACCCCCCACCACGACCTTGGCCCGAGCCCCTCCGTGAGGAACAC
AATCTCAATCGTTGCTGAATCCTTTCATATCCTAATAGGAATTAACCTCCAAATAAAACATGACTGGTAAAAAA
AA

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FIGURE 2343

MASVGECPAPVPVKDKKLEVKLGELPSWILMRDFSPSGIFGAFQRGYYRYYNKYINVKKGSISGITMVLACYVL
FSYSFSYKHLKHERLRKYH

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FIGURE 2344

TCGCTCGCTCCTCCTTCGCTTCGCCTCGCCGCCGCCATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTT
GACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCT
GCTGTCTGTGAATCTTTTGGAAAGCTGCCTGCGGCAAAGGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAG
AAGACAGTTGTGTGCAAACACTGGCTGCGTGGCCTATGCAAGAAAGGGGACCAGTGTGAGTTCTGTCATGAGTAT
GACATGACCAAGATGCCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCCTG
CACATCGACCCCGAGTCCAAGATCAAGGACTGTCTTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCCCTCTGC
AGGCACCGGCACACACGGAGAGTCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGGAGGGGGCCCTCGTGTA
TTTATGCACCCTCGATTGAACTGCCCATGGGAACACCGAGCAGCCCCCACTGCCACAGCAGACACAGCCTCCA
GCAAAGCAAAGTAACAATCCGCCATTACAAAGGTCGTCTCCTTGATCCAGTTAACGAGTCAGAACTCTTCTCCC
AATCAGCAGAGAACCCCGCAGGTCATCGGGGTTCATGCAGAGTCAAAACAGCAGCGCGGGCAACCGGGGACCCCGG
CCACTGGAGCAGGTCACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCACCAAAGGGCACTTG
GCCTTCTCAGTGGACAGTGACAGCAGCTGGAGCCAGCTCCGAGCAGCCCCGGGGGGCCCCGCTGTTGGGAGTGTGC
ATTTAACTGTTTTCATGCGCTTGTGGCGCGACTGTGGCTCGAGCTGGCCCCGAGACACGTGGGTTTCATCACTCT
GAGGGGCCACGTCTGTTAGTTTCTATCATTTTGGCGTAGTATTTTTGAAAAAGGGACATGTGTCCTGTGGGTC
CCTGCAGTCGACATCATGTTTGGCTGGGCATCGATGCCTCCTTTCTGGGACTCCCGGCACAACTCCCCTCATCCA
GGGAGGGAGGCAGCTGCTGGGGAGGGGCTTGGCTAGGTAGTTCTGTGTGGCGGTGGTCATTCCCCTCATTAAACA
CCAGTTCTTGGTGACGCCAGGGGCTGGTAGGTCAATCAAAGCTGTGGCCAGCTCACGCCTGCTTCCTCCCTCCCT
GCCCTGCTGAATCCTAAAGCTGTGCCTATATCTGTGATTGAATGAGGGAGCCCTTTGGGGCAAATTCAGGTGCC
CCCATTGCCTCAGGCTGGCCCTGGTCCAGGTGGCAGCGGTTGAGGAGGGGTACAGGGCTCTCAAGCCTGAGGTT
TTCTTCTCTGGGCTTAATTTTCTCTTGGGGTACGTGCCTGACAGTGTTTAAGGTGTCCGTTGAACTGGAGTTGCA
GACTTTTAAATAGATGACCCCTTCAGATCATCTGTGCCTACCTCCTGCCATCAGGCGTCTACACTGTCACTCAG
ACACCTGTGGCATGTGGAGGAGACTGCCCTGTCTGAGCCTGGAAAATGTGAACTGTCTCCTGCAACCTGTCTGG
GCATGTGGGCCTGGCTGTGTTCAATTGCAAGAACAATTTTATGAAATGGATTAAAGCTTGTTTTTT

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FIGURE 2345

MQEIIASVDHIKFDLEIAVEQQLGAQPLPFFPGMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKHWLRGL
CKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECFPLHIDPESKIKDCPWYDRGFCKHGPLCRHRHTRRVICVN
YLVGFCPEGPSCKFMHPRFELPMGTTEQPPLPQQTQPPAKQSNNPPLQRSSSLIQLTSQNSSPNQQRTPQVIGVM
QSQNSSAGNRGPRPLEQVTCYKCGEKGHYANRCKGHLAFLSGQ

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FIGURE 2346

CTGAGGCGGGAGACCGGTGGTCTGCACCGTCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGCCACTGGG
ATGTGTTTCGGGCTTTGGACCTTGAGGCCGGAGAGAGCTCCCGAGAGGAGGCGGCCACGTTTCGTTCTTCTGAGG
GGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTCTCTGAAGAAACAGGACCAGAGAGGGAAG
GTGACCTGAAAGTCACAGAATAATTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAGAGACGAGAGATC
TTTCTGCTGTCTATACTCTTGGAAGCACATCCTAAGATCTTTGCAGATTATCCTGTGGAAGGAAAATGCCTAAA
GTCAAAAGAAGCCGGAAGCACCCCCAGATGGCTGGGAGTTGATTGAGCCAACACTGGATGAATTAGATCAAAAG
ATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAGAGGAAAGTGGAATCTCTGTGGCCCATCTTCAGGATCCAC
CACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCATCAGCAGAGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXACAAAACCTGATTGCAAAATGGAAAAGCAAGGATATGAGAACTTGTGCTGCCTG
CGGTGCATTTCAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCAAAAGCAAGCTGGAAGTG
GGCCGCATCATCGAGTGACACACTGTGGCTGTCTGGCTGCTCTGGCTGAGGCTGGCGCGCTCCACCCTGGACT
CTGGACTTCGCAGGTTCTGCCTGTCACGCCACCCCTTCTGGGAGCAGCGAGCAGTGCCCCAGGCCCGAGTTG
GAGCACGGTCTCTATGGGGAAGGCTTCGCTGTCTATCAGCTGTGATTTGTAAAATAAAATCTTTAAATCTCTCG

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FIGURE 2347

MPKVKRSRKAPPDGWELIEPTLDELDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAISRXXX
XXXXXXXXXXKNLIAKWKQGYENLCCLRCIQTRDTNFGTNCICRVPKSKLEVGRIEEECTHCGCRGCSG

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FIGURE 2348

GGCACGAGGGAGCCCAGAGCCGGTTCGGCGCGTCGACTGCCAGAGTCCGCGGCCGGGGCGCGGGAGGAGCCAAG
CCGCCATGGCCTACCACAGCTTCCTGGTGGAGCCCATCAGCTGCCACGCCCTGGAACAAGGACCCGACCCAGATTG
CCATCTGCCCCAACCAACCATGAGGTGCATATCTATGAAAAGAGCGGTGCCAAATGGACCAAGGTGCACGAGCTCA
AGGAGCACAACGGGCAGGTGACAGGCATCGACTGGGCCCCCGAGAGTAACCGTATTGTGACCTGCGGCACAGACC
GCAACGCCTACGTGTGGACGCTGAAGGGCCGCACATGGAAGCCCACGCTGGTCATCCTGCGGATCAACCGGGCTG
CCCGCTGCGTGCGCTGGGCCCCCAACGAGAACAAGTTTGCTGTGGGCAGCGGCTCTCGTGTGATCTCCATCTGTT
ATTTGAGCAGGAGAATGACTGGTGGGTTTGCAAGCACATCAAGAAGCCCATCCGCTCCACCGTCCTCAGCCTGG
ACTGGCACCCCAACAATGTGCTGCTGGCTGCCGGCTCCTGTGACTTCAAGTGTGCGATCTTTTCAGCCTACATCA
AGGAGGTGGAGGAACGGCCGGCACCCACCCCGTGGGGCTCCAAGATGCCCTTTGGGGAAGTGTGATGTCGAATCCA
GCAGTAGCTGCGGCTGGGTACATGGCGTCTGTTTCTCAGCCAGCGGGAGCCGCGTGGCCTGGGTAAAGCCACGACA
GCACCGTCTGCCTGGCTGATGCCGACAAGAAGATGGCCGTCGCGACTCTGGCCTCTGAAACACTACCACTGCTGG
CGCTGACCTTCATCACAGACAACAGCCTGGTGGCAGCGGGCCACGACTGCTTCCCGGTGCTGTTACCTATGACG
CCGCCGCGGGGATGCTGAGCTTCGGCGGGCGGCTGGACGTTCTTAAGCAGAGCTCGCAGCGTGGCTTGACGGCCC
GCGAGCGCTTCCAGAACCTGGACAAGAAGGCGAGCTCCGAGGGTGGCACGGCTGCGGGCGCGGGCCTAGACTCGC
TGCACAAGAACAGCGTCAGCCAGATCTCGGTGCTCAGCGGCGGCAAGGCCAAGTGTGCGAGTTCTGCACCACTG
GCATGGATGGCGGCAIGAGTATCTGGGATGTGAAGAGCTTGGAGTCAGCCTTGAAGGACCTCAAGATCAAATGAC
CTGTGAGGAATATGTTGCCTTCATCCTAACTGCTGGGGAAGCGGGGAGAGGGTCAGGGAGGCTAATGGTTGCTT
TGCTGAATGTTTCTGGGGTACCAATACGAGTTCCCATAGGGGCTGCTCCCTCAAAAAGGGAGGGGACAGATGGGG
AGCTTTTCTTACCTATTCAAGGAATACGTGCCTTTTCTTAAATGCTTTCATTTATTGAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2349

MAYHSFLVEPISCHAWNKDRTQIAICPNNHEVHIYEKSGAKWTKVHELKEHNGQVTGIDWAPESNRIVTCGTDRN
AYVWTLKGRTWKPTLVILRINRAARCVRWAPNENKFAVGSGSRVISICYFEQENDWWVCKHIKKPIRSTVLSLDW
HPNNVLLAAGSCDFKCRIFSAYIKEVEERPAPTPWGSKMPPGELMFESSSSCGWVHGVCFSASGSRVAWVSHDST
VCLADADKKMAVATLASETLPLLALTFITDNSLVAAGHDCFPVLFTYDAAAGMLSFGGRLDVPKQSSQRGLTARE
RFQNLDDKKASSEGGTAAGAGLDSLHKNSVSQISVLSGGKAKCSQFCTTGMDGGMSIWDVKSLESALKDLKIK

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FIGURE 2350

CAGCTTTCTCTCCTTTGAAAACACTAAGAATAATGTCACCTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATG
CCTGGAACAGGGATCGTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGA
GCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACTGGGCTCCCAAGAGCG
ACCGCATTGTACATTGTGGGGCAGACCGCAATGCCTATGTCTGGAGTCAGAAAGATGGTGTGTTGGAAGCCAACCC
TGGTGATCCTGAGAATTAATCGCGCAGCTACTTTTGTGAAGTGGTCCCCCTAGAGAACAATTTGCTGTGGGAA
GTGGAGCAGACTCATTTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGC
CGATTGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGATCATGTGACTTCA
AATGCAGAGTGTTTTCTGCCTACATTAAAGAAGTGGATGAAAAGCCAGCCAGCAGCCCTGGGGCAGCAAGATGC
CTTTTGGGCAGCTGATGTCAGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCA
GTGGGAGCCGCTGGCTGGGTGAGCCACGACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGTCT
CGACTCTGAAGACAGAGTTCTGCGCTCCTAAGTGTGTCAATTTGTCTCAGAGAACAGCGTCGTGGCTGCTGGCC
ATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTGCCTGACCTTCGTCTCCAAGTTAGATATTCCAA
AACAGAGCATCCAACGCAACATGTCTGCCATGGAACGCTTCCGCAACATGGACAAGAGAGCCACAACCTGAGGACC
GCAACACGGCCTTGGAGACGCTGCACCAGAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATT
GTCGCAAATTTTGCCTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGACCCTCGAGTCTTCCATCC
AGGGCCTCCGGATAATGTGAAGCTGAGTG

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FIGURE 2351A

CTCCTCTGCTCCTCGAAGAAGGCCAGGGCGGCGCTGCCGCAAGTTTTGACATTTTCGCAGCGGAGACGCGCGCGG
GCACCTCTCGGGCCGACGGCTGCGGCGGCGGCCGACCCCTCCAGAGCCCCCTTAGTCGCGCCCCGGCCCTCCCGCTGC
CCGGAGTCCGGCGGCCACGAGGCCAGCCGCGTCTCCCGCGCTTGCTCGCCCCGGCGCCGACCCATGTCCCGG
GGGCCCCGAGGAGGTGAACCGGCTCACGGAGAGCACCTACCGGAATGTTATGGAACAGTTCAATCTGGGCTGCGA
AATTTAATAAACCTGGGGAAAAATTATGAGAAAGCTGTAACGCTATGATCCTGGCAGGAAAAGCCTACTACGAT
GGAGTGGCCAAGATCGGTGAGATTGCCACTGGGTCCCCCGTGTCAACTGAACTGGGACATGTCCTCATAGAGATT
TCAAGTACCCACAAGAACTCAACGAGAGTCTTGATGAAAATTTAAAAAATTCACAAAGAGATTATCCATGAG
CTGGAGAAGAAGATAGAATTGACGTGAAATATATGAACGCAACTCTAAAAAGATACCAAACAGAACACAAGAAT
AAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTGAAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCA
CTCAAATATGAACACAAAGAAATTGAGTATGTGGAGACCGTTACTTCTCGTCAGAGTGAAATCCAGAAATTCATT
GCAGATGTTTGCAAAGAGGCTCTGCTTGAAGAGAAGAGGCGCTTCTGCTTTCTGGTTGATAAGCACTGTGGCTTT
GCAAACCATACATTATTATCACTTACAGTCTGCAGAACTACTGAATTCGAAGCTGCCTCGGTGGCAGGAGACC
TGTTGTTGATGCCATCAAAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAGACCCCCAGCCTCTACCCCC
GTGCTGGAACCTCTCAGGCTTACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTTCT
AAATGCTCACCAAAGATGCCCCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTTAATAAC
CCAGCCACGGCTGCCCCGAATTCACAAAGGTAATAATTCAACAGGTACTTCCGAAGATCCCAGTTTACAGCGA
TCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTTCCCGCACACTGCGGGC
TCCAACAAGACCTTACTCAGCTTTGCACAGGGAGATGTCATCACGCTGCTCATCCCCGAGGAGAAGGATGGCTGG
CTCTATGGAGAACACGACGTGTTCAAGCGGAGGGGTTGGTTCCCGTCGTCGTACACGAAGTTGCTGGAAGAAAAT
GAGACAGAAGCAGTGACCGTGCCACGCCAAGCCCCACACCAGTGAGAAGCATCAGCACCGTGAACCTGTCTGAG
AATAGCAGTGTGTCTATCCCCCACCAGCTACTTGAATGCTTGTCCATGGGGGAGCTGCCGACAGGAGAGCA
GATTGGCCAGGACGACATCCACCTTTAAGGCCCCAGCGTCCAAGCCGAGACCGCGGCTCCTAACGATGCCAAC
GGGACTGCAAAGCCGCCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAACTCCGCCCCACTGTGACGAAT
GATCGCTCGGCACCCATCATTGATGAGAGGACAGCCAAGGACTCTCCCGGGCTCTCCGGTTCTCCCTTGCGGA
ATGATGGGCGCATCCTGTCTGCCAGTGCTGACGGTCGGGAAGCTTCAGTGGAGAGGCCTAACTCTAATGTGCGC
TGCTTAAGCAATCATGCTTCTCTGTTTACGTAGTTGGGTTGACAAGTTTCTGCCTTTAAGATAAATGAGTAAT
AGTCTAATGACCAGCTCAGCCATTTAAATATTTTCTTCTATTCTGTTCAAGAAACAGTAAACTTGGTTTCAAT
CTTTACTGTATTTTTTAAATGAATTTTTCTTAAATACAGCCAGAATAAGGGATAGTCTATGCTTTTACGACTG
GCTTTCTGCACCTGATATGAATGAGACCAGTTTTATTTATAAAGCATGTGCTCTTAATAGCATTATGTCTAAAG
AAGATATCACGTAAGTTTGCATCTTAGCATGCAATCATAATTTAAGCAATATAAATTATGAAAATACTATATA
AATGTAATTTAACTTAAATGTTTAAAGTGTAGAGCTTCCAGAGATGGAGAAACCCCAACCTCCCTCCAACACG
CCAGAGCTGTAGAGTGCTAAGACGCTTTGCCTGCCCTTATCACAGCCACACGTAGCACTCGACGAAATCTCCTCC
GAGAGCTCCTTTCTTGGTAGTTAGGAGTCGCCAACGGATTGCTGCACACGGCCCATCCAGGACACAGGCTGG
GCGTCGGAGTCACGGCTCCTTGTGTCTCACTCAGTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTCAAA
CTGCTCGGGGTCCTGGTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATACGTGTAAAGCCAGGATGAC
CTCTGGTGCTTGAGAAGGGCGGGTTTTTCAGCCTAGCAGCATGATGCCCTCGGAACCTGGCCCTATGGTATGG
ATGTGAGGACTACGCACTGGCTGCCCTGAGCCCGGGGCTGGAATCATCTTTGGCTGCCAAGGATCTGGACCTAT
TTTGGAGTGGAGAGTCATGGTTAAATTTCCAGCCCGGCCAGGTACGGGAATCCAGCATTTTGTGAGGCCGAG
GCAGGGGGATCACCTGAGGTCAGGAGTCTTACTAAAAATACAAAAATTAGACAGGTGTGGTGGTGGGCGCCACT
CAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGAGGCAGAGGTTGCAGTGAGCCAGATCATGCTGCTGCACT
CCAGCCCCGGCGCTCACCGTGTGTGTTGCTGGGTGCTGGGGCTGTGACTTATCCCTCTCCTTTAGCCTTGCCAT
AAGTGTAGTATCCTATGAGGCTGAGATTGGGAAAGGTTACATGCAGGTAAGCCAGTGGACGTGGCCGATGCTTCA
GGCTCCTTCCAGCCAGGTCCAGCAGTGTACCATTCTGCTTCTCTGGGAGGACAAACAGGCACCCCCACCATGA
AGGGGCTGCAGGCACCATGAACATGTTAAACACCCAGTCTGTACTACAGAAAGGGCTGCAGCCACATGAGAAT
TCAGTCCACACAAGCCCCATGGCCGTGTTCCCCACTTCAGCCACAGGGCTCAGGGAGCCCCATCTGGCGCTAAGG
GGAAGTGTGGGGTGTGGGTGACACCTGGCCTTTGGCGTTCTGCCTTGGGGAGGTTTTCTGGTTTTGTACGGGGT
GGAAGAATAGGACCTGGGGGTCTCGGATGCAACCTGCAGACCCCGTGGCTCACCAACCCAGGTTCTGCCTCCC
AGACCAGAACGGGCATGGCCTGGTCTTGGCACCGAGGTGCCTGCTCTGTAAATATCAAGGGATTACAACTTTAA

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FIGURE 2351B

TAATAAAGCAGAACTTG

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FIGURE 2352

GGCGGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCCAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTC
TAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAAGAAATATTGGAAAGACGCTCGTCACCAG
GACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTCAGAA
TGATGAAGTTGCATTTAGAAAATTCAGGCTGATTACTCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAA
CAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGATGATCGAAATCAT
GACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACAT
AGAAAAGGCTTGCCAGTCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCCAA
GTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGG
TGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGTTCAGACTTCAAATAGTG
GCAATAAAGAGTGCTATTTGTGAAAAAAAAAACAAAAAAAAAA

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FIGURE 2353A

CGCAGTGTGCTGGGGCATTGCCTGTGACAACCAGGTCTACGTGTATGTGTGTGCCAGCGATGTCCCCATCCGCC
GCCGAGAGGAGGCCATATGAGAATCAGCGCTGGAATCCCATGGGCGGCTTCTGTGAGAAGCTCCTGTGAGTGACC
GCTGGGGGTGGAGTGACGTGAGTGGGCTCCAGCACCGGCCGCTGGACAGGGTGGCACTGCCCTCGCCGCACTGGG
AGTGGGAGTCTGACTGGTACGTGGATGAGAATTTTGGAGGTGAACCCACTGAGAAAGGGGGGTGGACGTACGCCA
TCGACTTTCCCGCCACCTACACGAAAGACAAGAAGTGGAAATCTTGTGTGCGGCGCCGGAAGTGGATCCGGTACA
GGAGATACAAGTCCCGGGACATCTGGGCCAAGATCCCTCGAAGGATGACCCCAAGGAGCTGCCCGACCCCTTCA
ACGACCTCTCTGTAGGGGGCTGGGAGATCACGGAGGAGCCTGTGGGCCGCTGTCAGTGTGGGCTGTGTCTCTGC
AGGGCAAGGTGTGGTACAGAGAGGACGTACGCCACTCCAACCCGAAGGGTCTCTGTGCTCCCTGTGACACCC
CCGGGGAGGTGGTTCAGATCAGCTGTGGGCCCCACGACCTCCTGTGGGCCACACTCTGGGAGGGACAGGCCCTGG
TCCGGGAAGGAATCAACAGGAGCAATCCCAAAGGAAGTTCTGGTCCATCGTGGAGCCTCCTGGATCTGAAAACG
GGGTCAATGCACATCTCGGTGGGAGTCAGCGTGGTCTGGGCTGTACCAAGGACTGGAAGGTGTGGTTCCGAAGAG
GCGTCAACTCTCACAATCCCTGCGGCACCAGTTGGATTGAGATGGTTGGTGAGATGACGATGGTGAACGTGGGAA
TGAACGACCAGGTGTGGGGCATTGGCTGTGAGGACCGAGCCGTGTACTTCCGGCAGGGTGTACCCCCAGCGAGC
TCAGTGGGAAGACCTGGAAAGCCATCATCGCGGCCGAGAGTGTGACCGGTCACACTCTGGCAGCTCGTCTAGTC
TCCTCAGTGCCGGCTGCTTCTTCGGTGATGAGGTGAGGGGTAGTGGCGAGTCTGCCCCAGCGACACCGATGCCT
CCTCGGAAGTCGAGAGACCAGGGCCTGGCCAGATTCTCCCTGCAGAACCTCTAGACGATTCCAAGAATGCCACAG
GGAATCAGCCTCAGGCCTGGGGGCTGGCAGGACCGCAGAAGATACCGTGGAAGATGCCTGCCAGCCGAGGGCA
GCAGGGAGGCCAGACCCAAACGACACCCCGGCCCGGCCACCCCGGCCGAGCTGCCCTGGACCAATATTGACC
TCAAGGAGGCCAAGAAAGTGGCCAGCCACTCGGCCGCTGGCTTCCCCGAGACCACAGCCTCTCTCTCTGGGGC
TCCTCCCACTGGGCTTGGAGGAGCCGTATGGGGTGGATGACCACCCGCTGTGGGCTGGGTGTGGGAGGCGGCT
GCGTGGTGGAGGCATGTGCCATGCCCAGATGGTTCACTGTCCAGGCGGGCCTGTCTCTCTCGGTACACATGCTGT
CCCTGTCCATCACGCCGGCCAGACCGCTGCCTGGAGGAAGCAGATCTTCCAGCAGCTACGGAAAGGACCAAGC
GGGAGCTGGGAACTTACAGACTACGAGCAGGCCGTGGAGCAGTCGGTGTGGGTGAAGACCGGGGCGCTGCAGT
GGTGGTGGCACTGGAAGCCCCACAAGTGGGTGGACGTGCGCTTGGCCCTGGAGCAGTTACGGGGCAGCAGCGG
TCCGGGACAGCATCTCTTCTATCTACTATGTGGTCCACGAGGAGAAGAAGTACATCCACATATTCTGATGAGG
TGGTGGCGCTGGTCCCAGTGTGAACGAGACCAAGCACTCCTTTGCCCTGTACACCCCTGAGCGACACGGCAGA
GGTGGCCGGTGCCTGTGGCTGTGCCACCGAGCAGGACATGAATGACTGGCTCGCCCTGCTCAGCTGTCTTGCT
GCGAGAGCCGGAAGGTGCAAGGGCCGCGCTCCCCGAGGCCATCTGGTCCATCACCTGCAAGGGGGACATCTTCG
TGAGCGAGCCCAGCCCAGACCTGGAGGCCACGAGCACCCCTGCCCTGCGACCAGATGTTTTGGCGGCAGATGG
GAGGCCACCTGCGGATGGTGGAGGCCAACAGCCGGGGCGTGGTGTGGGGCATCGGCTATGACCACACGGCCTGGG
TATACACAGGCGGCTATGGAGGCGGCTGCTTCCAAGGCTGGCCAGCAGCACCAGTAACATCTACACGCAGTCAG
ACGTGAAGTGTGTTACATCTATGAGAACCAGCGCTGGAACCCGTCACAGGCTACACCAGCAGGGGTCTGCCCA
CGGACCGGTACATGTGGAGCGATGCCCTGGGGCTGCAGGAGTGCACGAAGGCTGGCAGCAAGCCCCGCTCCCTGC
AGTGGGCTGGGTTTCCGACTGGTTCTGGATTTCAGCGTTCCGGGGGACCGGACCAGGAGGGGTGGCAGTATG
CCAGCGACTTCCCTGCCCTATACCATGGGTCCAAAACGATGAAGGATTTTGTGAGGAGGAGGTGCTGGGCCAGAA
AATGCAAGCTGGTGACCAAGTGGGCCCTGGCTGGAGGTGCCCCCATCGCCCTCAGGGACGTGTCCATCATCCCGG
AGAGCCCGGGTGCCGAGGGGAGTGGGCACAGCATCGCCCTCTGGGCCGTACGCGACAAGGGGGATGTGCTGTGCC
GCCTGGGCGTGTGCGAGCTCAACCCCTGCGGGCTCCTCCTGGCTGCACGTTGGCACCGACAGCCCTTCGCTCCA
TCTCCATCGGGGCTGTGCTACAGGTGTGGGCCGTGGCAAGGGACGGCTCCGCTTCTACCGGGGATCCGTGTACC
CCTCGCAGCCAGCCGTGACTGCTGGTACCACATCCCGTCCCCACCGAGACAGAGGCTGAAGCAGGTGTCCGCGG
GGCAGACGTCGGTGTATGCCCTGGATGAGAATGGAAACCTGTGGTATCGCCAAGGGATACGCCCAGCTACCCGC
AGGGCTCCAGCTGGGAGCACGTGTCCAACAACGTGTGCCGAGTGTCCGTGGGGCCCTGGACCAGGTCTGGGTGA
TCGCCAACAAAGTGAGGGGACGCCACAGCCTGAGCCGGGGGACAGTGTGTATCGCACCGGCGTGCAGCCTCACG
AGCCCAAGGGCCACGGCTGGGACTACGGCATCGGGGGAGGCTGGGACCATATCTCTGTCCGGGCCAATGCCACCA
GGGCCCCCGGAGCTCGTCCAGGAGCAGGAGCCGAGTGCCCCACCAGAGGCCCATGGCCCCGTCTGCTGTGAG
GCCCCCCACACACCTACATGAGGGACGGTGCCAGTTTGGGGGATCAAGGCTGAGCCATTCTGTGCTGGAGT
GTGCACCGTGGGAGCAATGTGGCCAGGTGGACTCAGGAGGGAACCTGGCCCCAAGGCTGCGGCCACTTCAGAGG
CACTGGCTGAGACGGCCCTGAAATGTGAAGTCCGCGGACACTCCACACGTGTCCCCGTCTGCGAGGAGTCCCG

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FIGURE 2353B

GGGTGTGGGGCATGGGGTGGGGCTGCACCTCCCAGAGGCCCTCCCACCCTTCCCTTCCCCTCTCCCTTCTGCCT
TTCCAGGACTAGAACCGGGAACCTGGAGCCCTCCGGGAACGCCGGCCCTGGGGCAGCAGAGCCAGGATGGAGCCC
TCCTGAGCTGGCATCTCAGACAGCACCCGGGCCCCGCCACCCTCACCAAGAGAGATGGCCATGGGGCTCAGGGCC
TCTTTACCATGTGCAGTGACCATTCTCAGAGCAGGACTTGCAAAGAGGCTTTAATTTCAAAGTGAAGGAAGGA
GGCCAGGCGCCGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTAGGTCAAGA
GTTTCAAACCAGACGGGCCAACATGGTGAAACCCCATCTCTGCTAAAAATACAAAAAAAAAAAAATTAGCTGGGC
ATGGTGGTGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCGGAG
GCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGACTCCATCTC

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FIGURE 2354

MGWGCTSORPLPPFPSPLPFAFFGLEPGTWSPPGTPALGQQSQDGALLSWHLRQHFGPPPLTKRDGHGAQGLFTM
CSDHFSEQDLQRGFNFKSEGRRPGAVAHACNPSTLGG

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FIGURE 2355

AAACTTCCCGCACGCGTTACAGGAGCCAGGTCGGTATAAGCGCCAGCGGCCTCGCCGCCCGTCAAGCTGTCCACA
TCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTTACGCCAGATTTTCTTCAATCACATCTGAATAAATCA
CTTGAAGAAAGCTTATAGCTTCATTGCACCATGTGTGGCATTGTTGGCGCTGTTTGGCAGTGATGATTGCCTTTCT
GTTCAAGTGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATAC
ACCAACTGCTGCTTTGGATTTTACCAGTTGGCGGTAGTTGACCCGCTGTTTGGGAATGCAGCCAATTCGAGTGAAG
AAATATCCGTATTTGTGGCTCTGTTACAATGGTGAAATCTACAACCATAAGAAGATGCAACAGCATTGTTGAATTT
GAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGT
ATGTTGGATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTTCTGGGTAGAGATACATAT
GGAGTCAGACCTTTGTTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTTCTGAGAGCTAAAGGTCTTGT
ACATTGAAGCACTCCGCGACTCCCTTTTAAAAGTGGAGCCTTTTCTTCTGGACACTATGAAGTTTGGATTTA
AAGCAAATGGCAAAGTTGCATCCGTGGAATGGTTAAATATCATCACTGTCGGGATGAACCCCTGCACGCCCTC
TATGACAATGTGGAGAACTCTTTCCAGTTTTGAGATAGAACTGTGAAGAAACAACCTCAGGATCCTTTTTAAT
AATGCTGTAAAGAAACGTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTG
GTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATG
GAAGACAGCCCCGATTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAAGTGAACATTATGAAGTCCTTTTT
AACTCTGAGGAAGGCATTACAGGCTCTGGATGAAGTCATATTTTCTTGGAACTTATGACATTACAACAGTTTCTG
GCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAA
GGATCAGATGAACCTTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCTGAAAAAGCCGAGGAGGAGAGT
GAGAGGCTTCTGAGGGAACCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTTGAA
CTGAGAGTCCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAG
AATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGA
CCAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCCTGGTTTAAAGATTTTACAGGAATACGTTGAA
CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGA
TATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAG
TGGATCAATGCCACTGACCCTTCTGCCCCGACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGGTGGTCTTT
ATGCTGTAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCA
ACTCAGGCTAACTTGGGTGTGAAAAAATAAAAGTCCTAAATCT

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FIGURE 2356

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDTYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFS GEGSDELTQGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

[illegible]

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FIGURE 2358

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDTYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG
FEIETVKNLRIILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSSEGSDELTOGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

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FIGURE 2359

CCTGGCTGGGACGGAGTTGCACCACAAGTACAATTAGTTTCAGTTTTGTTTCTTTTCCAGGCACCCAGCAACGG
CGGCTCCAGGCCTCAGGCCCCCTCACCATCCTAGAGGTCAAGATCAGCTCTGGCTAGTTCTCACAGGTCTGACC
CAACAAGTAGCACTGACATTTTTACGTTTGCTGGATGTACACACGGAAGTGGAGGAGGAGGAGGAGAAGGAGGAG
GGCAGCTCCTTAGCTCAAGAGCAAGTGGCCCAAGGCCTCAGAAGACTAGAAGGAAGTTCTTGCCATTACAGCATG

GTTTCCACGGGTCTCGCCCTCCCTCCTGGAGGCCCTGAGCAGCGACTTCTGGCCTGTAAATCTGCCTGGAG
CAGCTGCGGGACCCAAAGACACTGCCCTGCCTGCATACCTACTGCCAAGACTGCCTGGCACAGCTGGCGGATGGC
GGCCCGTCCGCTGCCCGAGTGCCGCGAGACAGTGCCTGTGCCGCCGAGGGTGTGGCCTCCTTCAAGACCAAC
TTCTTCGTCAATGGGTGCTGGACCTGGTGAAGGCCCGGCCCTGTGGAGACCTGCGTGCCGGGAAGCCAGCCTGT
GCCCTGTGTCCCCTGGTGGGTGGCACCAGCACCGGGGGGCCGCCACGGCCCGGTGCCTGGACTGTGCCGATGAC
TTGTGCCAGGCCTGTGCCGACGGGCACCGCTGCACCCGCCAGACCCACACCCACCGCTGGTGGACCTGGTGGGC
TACAGGGCCGGGTGGTATGATGAGGAGGCCGGGAGCGCCAAGCGGCCAGTGTCCCCAGCACCCCGGGGAGGCA
CTGCCCTTCTGTGCCAGCCCTGCTCACAGTTGCTGTGCAGAGAGTGCCTGCTAGACCCCCACCTGGACACCCC
TGCTTGCTCTGGCTGAAGCTGTGCGTGCCCGGAGGCCGGCCCTGGAGGGACTGCTGGCCGGTGTGGACAATAAC
CTGGTGGAGCTGGAGGCAGCGCGGAGGGTGGAGAAGGAGGCGCTAGCCCGGCTGCGGGAGCAGGCGGCCCGGTG
GGGACTCAGGTGGAGGAGCGGCTGAGGGCGTCTCCGGGCCCTGCTGGCCAGAGCAGGAGGTGCTGGGGCAG
CTACGAGCCACGTGGAGGCTGCCGAAGAAGCTGCTCGGGAGAGGCTGGCGGAGCTTGAGGGCCGGGAGCAGGTG
GCCAGGGCCGAGCCGCCCTTCGCCCCCGGGTACTCAGCCTGGGGCGAGAGGCCGAGATCCTCTCCCTGGAAGGG
GCGATCGCACAGCGGCTCAGGCAGCTGCAGGGCTGCCCTGGGCACAGGCCCGGCCCTGCCTGCTCCACAG
CTGGAGCTCCATCCTGGGCTCCTGGACAAGAACTGCCACCTTCTTCGGCTGTCCTTTGAGGAGCAGCAGCCCCAG
AAGGATGGTGGGAAAGACGGAGCTGGTACCCAGGGAGGTGAGGAGAGCCAGAGCCGAGGGAGGATGAGCCGAAG
ACTGAGAGACAGGGTGGAGTCCAGCCCCAGGCTGGAGATGGAGCCAGACCCCAAAAGAGGAAAAAGCCAGACA
ACCCGAGAAGAGGGAGCCAGACCTTGGAGGAGGACAGGGCCAGACACCCACGAGGATGGAGGACCCAGCCC
CACAGGGGTGGCAGACCCAACAAGAAGAAAAGTTCAAAGGCAGGCTCAAGTCAATTTCCCGGAGCCAGCCCA
GCCCTGGGGCCGAATCTGGACGGCTCTGGCCTCCTCCCCAGACCCATCTTTTACTGCAGTTTCCCCACGCGGATG
CCTGGAGACAAGCGGTCCCCCGGATCACCGGGCTCTGTCCCTTCGGTCCCCGGGAGATCCTGGTGGCGGATGAG
CAGAACCGGGCACTGAAACGCTTCTCCCTCAACGGCGACTACAAGGGCACCGTGCCGGTCCCTGAGGGCTGCTCC
CCTTGACGCGTGGCCGCCCTGCAGAGCGCGGTGGCCTTCTCCGCTAGCGCACGGCTCTATCTCATCAACCCCAAC
GGCGAAGTGCAGTGGCGCAGGGCCCTGAGCCTCTCCAGGCCAGCCACGCGGTGGCGGCACTGCCTAGCGGGGAC
CGCGTGGCTGTACAGCTGGCGGGCCACGTGGAGGTGTACAATATGGAAGGCAGCCTGGCCACCCGGTTCATTCT
GGAGGCAAGGCCAGCCGGGGCCTGCGGGCGCTGGTGTCTTGACCAACAGCCCCAGGGGCATTTCTGGGGTCTG
GACTGGCAGCAGAATAGTGTGTAATCTGTGATGGGCTGGGCCAGGTGGTTGGGGAGTACAAGGGGCCAGGCCTG
CATGGCTGCCAGCCGGGCTCCGTGTCTGTGGATAAGAAGGGCTACATCTTTCTGACCTTCGAGAAGTCAACAAG
GTGGTGATCCTGGACCCGAAGGGGTCCCTCCTTGAGACTTCTTGACAGCCTACCACGGCCTGGAAAAGCCCCGG
GTTACCACCATGGTGGATGGCAGGTACCTGGTCTGTCCCTCAGTAACGGGACCATCCACATCTTTCGGGTCCGT
TCTCCGGACAGTTAAAGGGGCTAGGACTAGGGTGAGAGGGAGTGGGGAGGGAGAGGGCAGGAAGGAGGCAGAGCT
GTCCGTGGGAGGTGGAGGCCGAGGACATTTTCTGAAGGGCAGGGGTGGCAACTTTTCAACATGGAGTGCCAAA
CTGCTAACCCGTCTTCTAGTGTGTGAGAATAGGGACCAAGGTGGTGGCGTGACCTTAACCTCAGAAAGCAGAGGA
GGCAGGTGGGTGGAGGGGGATGCTGGGAGTTACCTGCCTCTTGCTTTTGTGGGTGGCTGCCACCACCGCC
GCTGCTATATAGTTTCTAGGTTTCTGAGGTTTGTGAGCCTGTCTGCTTTGCATTCTTCAAAACCATCTGATAGA
GTAGCCGAGGGAGAGTCTTGGGGCCAAGAAGGGCCAGGGTGGGTGAGGCGTGTGCACTGTGGAACAGAGCTGAG
ACCCCGGCCCCCTTGGACTGGCACAGGGTCTTACAGAGTCAGAGGAGCCTGAGATTTCGAATGGGCACTGAAT
GGCCTCTTCTGCCAGCCACAGGCAGGATGCTCCTTGATACGGCATCCCCCGGCGGTAGTACAGGGTGAGCTTGC
AGGAGGGTCTGCAAGTGCAGACAGCAGCTGGGGCCAAAGAGGTGTAGGTTCAAAGGCTGCGAAGAGAATAGGCT
ACTGGAACCAACCAACAGAAATTACGTCCAAAATCCACATCTCCATCGCTTCTCAGCCTTTGGCTAAG
ATTAAGTATTAACCAACCAACAGGCTCTGCCAGGCGCAGTGGCTCATGCCTATAATCCCGGCACTTTGGGAGTCT
GTGGCAGGAGGATTGCTTGAGGCCAGGAGTTTGTAGACAGCCTGGGCAACATAGCGAGACCCCATCTTACAAAA
GATTAAAAATTAGCTGCGTGTAGTAGCATATGCCCTTCAACGTAGCTACTCAGGAGGCTGAGGTGGGAGGATCCC
TTGAGCCGAGGAGTTTGTAGTCTGAGTGTAGCTATGATCGCACCCTGCATTCCAGACCCCATCTCG

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FIGURE 2360

MVSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPCCLHTYCQDCLAQLADGGVRVRCPECRETVPVPPEGVASFKT
NFFVNGLLDLVKARACGDLRAGKPACALCPLVGGTSTGGPATARCLDCADDLCQACADGHRCTRQTHTHRVDLV
GYRAGWYDEEARERQAAQCPQHPGEALRFLCQPCSQLLCRECRDPHLDHPCLPLAEAVRARRPGLEGLLAGVDN
NLVELEAARRVEKEALARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQ
VARAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLDKNCHLLRLSFEEQQP
QKDGGKDGAGTQGGEESSQSRREDEPKTERQGGVQPQAGDGAQTPKEEKAQTTREEGAQTLIEDRAQTPHEDGGPQ
PHRGGRPNNKKKFKGRLKISREPSPALGPNLDGSGLLPRPIFYCSFPTRM PGDKRSPRITGLCPFGPREILVAD
EQNRALKRFSLNGDYKGTVPVPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSG
DRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSWQQNSVVICDGLGQVVG EYKGP
LHGCQPGSVSVDKKG YIFLTLREV NKKVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGRYLVVSLSNGTIHIFRV
RSPDS

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FIGURE 2361

GAATTCTGCAGCTCAGCAGCCGCCGCCAGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCTGGGCTTGGCCCTTGCTTTGGTGAAGGGTCTGCTGTGCAC
CATCCCCATCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTCAGCAGGTGGCGCAGGCCTCC
AAGGACCGCAACGTGTTTTCTCACCTATGGGGTGGCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA
GAGGTGGAGAGAGCCAGATTTCATCATCAATGACTGGGTGAAGACACACAAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGCTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG
GCTCAGACCAACAAGTTCAACTATACTGAGTTACCACGCCCGATGGCCATTACTACGACATCCTGGAAC TGCCC
TACCACGGGGACACCCCTCAGCATGTTTATTGCTGCCCCCTTATGAAAAAGAGGTGCCTCTCTCTGCCCTCACCAC
ATTCTGAGTGCCAGCTCATCAGCCACTGGAAAGGCAACATGACCAGGCTGCCCCGCTCTCGTTCTGCCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCCTAGAGAACCTGGGAATGACCGACATGTTTCAAGACAGTTT
CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTGCGCGAGGCGCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC
ATCATGGACAGACCTTCTCTTTTGTGGTCCGGCACAACCCACAGGAACAGTCCTTTTCATGGGCCAAGTGATG
GAACCCTGACCTTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAACTCCGAA
GAAAAGAAATTTTAGTGTTAATGACTCTTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCT
GGGAGAGAAGTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCTGCGGGACCATCTGGGGCA
CCTGCTTCCACCCGTCTCTCTGCCACTCGGGTCTGCAGACCTGGTTCCTCACTGAGGCCCTTTGAGGATGGAAC
TACGGGGCTTACAGGAGCTTTTGTGTGCTGGTAGAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA
CTGCCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCCCTTTCATCTCAGAGTCCA
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCC
AACTCTCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTATTTTGGAGTGTAGGTGACTTGTTT
ACTCATTGAAGCAGATTTCTGCTTCCTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT
CTTCACCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTCCTTTGTGGTCTGTGTACCC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGGACATCCAGCGTGACGGAGCCACACTGCCA
CCTTGTGGCCGCTGAGACCTCGCGCCCCCGCGCCCCCGCGCCCCCTCTTTTCCCTTGATGGAAATTGACC
ATACAAATTCATCTCTCTCAGGGGATCAAAAGGACGGAGTGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACTTTCCCAA
TTACAGGGTGACTCACAGCCGATTGGTGACTCACTTCAATGTGTCAATTCGGCTGCTGTGTGTGAGCAGTGA
CACGTGAGGGGGGGTGGGTGAGAGAGACAGGCAGCTCGGATCAACTACCTTAGATAATATTTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCACAAGATGGATGTAATGCATTTGGGAGGCCAAGCGGGAGGATTGCTTGAGCCCA
GGAGTTCAAGACCAGCTGGGCAACATACCAAGACCCCGTCTCTTTAAAAATATATATATTTTAAATATACTTA
AATATATATTTCTAATATCTTTAAATATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 2362

MQMSPALTCLVLGLALVFGEGSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMLQLTTGG
ETQQQIQAMGFKIDDKGMAPALRHLYKELMGPWNKDEISTTDAIFVQRDCLKLVQGFMPHFFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM
AQTNKFNYTEFTTPDGHYYDILELPYHGDTLMSFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQKVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLFVVRHNPTGTVLFMGQVMEP

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FIGURE 2363

GTGGGACGCGCCGAGCCGAGGCTGCAGGATGATGCGGTTCATGCTATTATTCAGCCGGCAGGGAAAAC TGCGGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCAGCTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGATGTCCAGGACACCTCCACTTTCCCTTTTCCCACTGAAGGTTTTAGAAGCTAGGAG
GCAGGAAAATGTGACCCAGATGGGGGTGCTATTTGGCTTTTATTCCTGCCTTTGCAGAACTGATGTCACCCAG
ATGTCCTTCCCTCCCTAATAAAGTGTAAATATATAAATATGTCAGGTTAAAGGGAAAAGGTGTTGAGGGCACTTCT
TGTCTCTCTGTGCCATAACCTACCTCCACCTCCCCCTAGCCAGCCAGGCAGCTTCTCTGCCTGGGAGGGGAGC
CTGGACCCCCCTCTTTCTCCTTGGCTGCAGTGGGGCCTTTATCCAGTGCCAGGGAGGAACAACATAGTTAATTTT
TTTCTAACCTTGCCACTTTGAGGGAAGGAAGGGTTGGGGGAAGGGCAAGCTTTATGGGACCCTGGTCCTGGCCCT
GGCCTTTCAGTCCAGTTCTGGGTGAGGCAGGAGCTGGGAGGGGTGGGGAGGGGGAGGGGGAAGTGTCTGCCTTTA
TGTCTTTCTTCTGAAATAAAAGGAAAAGCATTCTGGAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2364

MMRFMLLFSRQGKLRQLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSTFPFSH

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FIGURE 2365

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTCATGCTATTATTCAGCCGGCAGGGAAAAGTGC GGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCAGCTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCAAGAAGAGTGTGCTGAAAGCCATCGAGCAGGCTGACCTAC
TGCAAGAGGAGGATGAGTCGCCACGGAGTGTGCTGGAGGAGATGGGTTTGGCATAGCCCCCTGCTGGGCCGGGGTG
TGGCGATGGGGTCTTGGCAGCGTGGCGGGAACGGCTGCTTCTCCTCTGCCCAGGGCCCTGTTCTTGGTGGGACTC
GGCTGCCCCCTCCTC

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FIGURE 2366

MMRFMLLFSRQGKLRLOKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITTLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSKKSVLKAIEQADLLQEEDESPRS
VLEEMGLA

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FIGURE 2367

CCAGCGTGCTGAAGCCGGAGCGAGCTAGCCGCCCGGAGCCGCGCCGACCCAGCTGAGCCCAGCCCACGGGACGCC
AGACCTCGACCGTCTGCTCTCTACCCCGGCCACCGCTCGGAGCCGAGGCGGACGCGTCCCGATCTTCCCCGTGCCCC
ACCCTGCCCCGACCCTCCTCTCCACCTCTCGCGTCTGTACACCAGCGTCTCCGGCAGCCTCTTGGTCAATGAAAGC
CCTCAGATTGTGCGCTTCCGCCCTCTTCTGCTTCTGCTGATCAACGGGTTAGGGGCAGCACCCCTGGTCTGCCCC
TGAGGCGCAGCCTCCTCCTCTCAGCTCTGAGCATAAAGAGCCGGTAGCCGGGGACGAGTGCCCGGGCCAAAGGA
TGGCAGCGCCCCAGAGGTCCGAGGCGCTCGGAATTCGAGCCGCGAGGACGAGGGAGAGCTTTTCCAGGGCGTGGA
TCCCCGGGCGCTGGCCGCGGTGCTGCTGACGGCACTCGACCGTCCCGCCTCACCCCGGCACCAAGCGGCTCCCA
GCAGGGGCGCGAGGAAGAAGCAGCTGAAGCTCTGTGACCGAGACCGTGCGCAGCCAGACCCACAGCCTCCCGGC
GCCGGAGAGCCCGGAGCCCGCGGCTCCGCTCGCCCTCAGACTCCGGAGAATGGGCCGAGGCGAGCGATCCCTC
CGAGGAGCTCGAGGCGCTAGCGTCCCTGCTCCAGGAACTGCGAGATTTAGTCCAAGTAGCGCCAAGCGCCAGCA
GGAGACGGCGGCAGCAGAGACGGAAACCCGACGACACGCTGACCCGAGTGAATCTGGAGAGCCCGGGGCCAGA
GCGCGTATGGCGCGCTTCTGCGGAGAGTTCCAGGCGCGTGTCCCGGAGCGCGCGCCCTGCGCCCCCGGGCCCC
CTCTCAATTCCAGGCGCGTATGCCCGACAGCGGGCCCTTCCCGAAACCCACAAGTTCGGGGAAGGAGTGTCTC
CCCCAAAACACACCTAGGCGAGGCATTGGCACCCCTGTCCAAGGCGTACCAAGGCGTGCGCGCCCGTTCCCCAA
GGCGCGCCGGCCGGAGAGCGCACTCTGGGCGGCTCCGAGGCGGGCGAGCGCCTTCTCCAGCAAGGGCTGGCGCA
GGTGGAGGCCGGCGCGCGGCGAGGCGGAGGCCACGCGGCGAGGCGCGGCGCAGGAAGAGCGGCTGGCCGACCTCGC
CTCGGACCTGCTGCTCCAGTATTTGCTGCGAGGGCGGGCCCCGCGCAGCGCGGCTCGGGGTGCGGGGCTGCAGGA
GGCGGCGGAGGAGCGAGAGAGTGCAGGGAGGAGGAGGAGGCGGAGCAGGAGAGACGCGGCGGGGAGGAGAGGT
GGGGGAAGAGGATGAGGAGGCGGCGGAGGCGGAGGCGGAGGAGGCGGAGAGGGCGCGGCGAGAACGCGCT
CCTGTTGCGGAGGAGGAGGACGGGGAAGCCGCGCGCGAGGACAAGCGCTCCAGGAGGAGACGCCGGGCCACCG
GCGGAAGGAGGCCGAGGGGACAGAGGAGGGCGGGGAGGAGGAGGACGACGAGGAGATGGATCCGCAGACGATCGA
CAGCCTCATTGAGCTGTCCACCAAACCTCCACCTGCCAGCGGACGACGTGGTCAGCATCATCGAGGAGGTGGAGGA
GAAGCGGAAGCGGAAGAAGAAGCGCCCTCCCGAGCCCGTGCCGCCCGCCCGTGCCGCCCGCCCGCCCGCCCGCCCGC
CCGCTCCCCGACGCCCCCGCCCCCGCCCCGCTCCCGCACGAGACGAGCTGCCGGACTGGAACGAGGTGCTCCC
GCCCTGGGATCGGGAGGAGGACGAGGTGTACCCGCCAGGGCGGTACCAACCTTTCCCAACTACATCCGGCCGCG
GACACTGCAGCCGCCCTCGGCCTTGCGCCGCGCCCACTACCACCACGCTTGCCGCTTTCGCGCCACTATCCCGG
CCGGGAGGCCAGGCGCGGCGCGCGCAGGAGGAGGCGGAGGCGGAGGAGCGCGGCTGCAGGAGCAGGAGGAGCT
GGAGAATTACATCGAGCAGTGTCTGCTCCGGCGCCCGTGACTGCCCTTCCCGGTCCCGCCCCGCGCGCCCCCGC
CGCGCGCGCGCGCGCGGCGCCCCCTCCGTGTTGCCGCTCCCCCTCGGTGTTGCATGCGCCCCGGCCCTGCCCC
TTGGCCCTGCCCTGTCCCCGGGTGCGTCCGGACCTGCCAGACCCCTCCCGGTCTGAGCCCGAATCCCA
GAGCTACCCGCGGGTGACCGGGGCCAGCCCAGGAGGCGGGTGTTTGTGCGAGTTCCCTTGCCACGCGGGGC
CCCGGCCCATCAAGTCCCTCTGGGGACGTCCCGTCCGAAACCGGAAAAAGCAGTTCCAGTTAATTGTGTGAAG
TGTGTCTGTCTCAGCCCTTCGGGCTCCACGAGCCCTCCAGCCTCTCCAAGTCGTGTGAATTGACCCCTTC
TTTCCTTTCTCTGTTGTAAATACCCCTCACGGAGGAAATAGTTTTGCTAAGAAATAAAAGTGACTATTTT

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FIGURE 2368

MKALRLSASALFCLLLINGLGAAPPGRPEAQPPPLSSEHKPEVAGDAVPGPKDGSAPENVRGARNSEPQDEGELFQ
GVDPRALAAVLLQALDRPASPPAPSGSQQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRPQTPENGPEAS
DPSEEEALASLLQELRDFSPSSAKRQQETAAETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPP
PAPSQFQARMPDSGPLPETHKFGEGVSSPKTHLGEALAPLSKAYQGVAAPFPKARRPESALLGGSEAGERLLQQG
LAQVEAGRQAEATRQAAAEERLADLASDLLLQYLLQGGARQRGLGGRGLQEAAEERESAREEEAEQERRGGE
ERVGEDEEAAEAEAEAEAEERARQNALLFAEEEDGEAGAEDKRSQEETPGHRRKEAEGTEEGGEEEDDEEMDPQ
TIDSLIELSTKLHLPADDVVSIIEEVEEKRRKKNAPPEVPVPPRAAPATHVRSPQPPFPAPAPARDELDPWNE
VLPPWDREEDVYPPGPYHFPNYIRPRTLQPPSALRRRHYHHALPPSRHYPGREAQARRAQEEAEAEERRLQEQ
EELNYIEHVLLRRP

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FIGURE 2369

GGCACGAGGGCTTCCACATGTGTCAAGCGGCTGGCTCAGCCCAGAGTCCCTGTCTCCCGCCCGCCGGCCCGAGCC
GCCGCCCTCCCCCGCCTCCCGTGCGCCCGGGACAATCCTCGCCTTGTCTGTGGCGCCGGCATCTGGAGCTTTCT
GTAGCCTCCGGATACGCCTTTTTTTCAGGGCGTAGCCCCAGCCAAGCTGCTCCCGCGGGCGGCCACAGCAGCC
CGAGCGCCCCCTTTCCGGAGCTCCCTCCGGAGCTGGGATCCAGGCGCGTAGCGGAGATCCCAGGATCCTGGGTG
CTGICTGGGCCCCTCCCCACCATGACCTCCTCGGGGCTGGACCCCGGTTCTGCTGCTGCTGCCGCTGCTGCT
GCCCCCTGCGGCTCAGCCTCCGACCGGCCCGGGGCGAGACCCGGTCAACCCAGAGAAGCTGCTGGTGATCAC
TGTGGCCACAGCTGAAACCGAGGGGTACCTGCGTTTCTGCGCTCTGCGGAGTTCTTCAACTACACTGTGCGGAC
CCTGGGCCTGGGAGAGGAGTGGCGAGGGGGTGTGTGGCTCGAACAGTTGGTGGAGGACAGAAGGTCGGTGGTT
AAAGAAGGAAATGGAGAAATACGCTGACCGGGAGGATATGATCATCATGTTTGTGGATAGCTACGACGTGATTCT
GGCCGGCAGCCCCACAGAGCTGCTGAAGAAGTTCGTCCAGAGTGGCAGCCGCTGCTTCTCTGCAGAGAGCTT
CTGCTGGCCCGAGTGGGGGCTGGCGGAGCAGTACCCTGAGGTGGGCACGGGGAAGCGCTTCTCAATTCTGGTGG
ATTTCATCGGTTTTTGCCACCACCATCCACCAAATCGTGCGCCAGTGGAAGTACAAGGATGATGACGACGACCAGCT
GTTCTACACACGGCTCTACCTGGACCCAGGACTGAGGGAGAACTCAGCCTTAATCTGGATCATAAGTCTCGGAT
CTTTCAGAACCTCAACGGGGCTTTAGATGAAGTGGTTTTAAAGTTTGATCGGAACCGTGTGCGTATCCGGAACGT
GGCCTACGACACGCTCCCCATTGTTGGTCCATGGAACGGTCCCACTAAGCTGCAGCTCAACTACCTGGGAACTA
CGTCCCCAATGGCTGGACTCCTGAGGGAGGCTGTGGCTTCTGCAACCAGGACCGGAGGACACTCCCGGGGGGCA
GCCTCCCCCCCCGGGTGTTTTCTGCGCGTGTGTGTGGAACAGCCTACTCCGTTTCTGCCCCGCTTCCTGCAGCGGCT
GCTACTCCTGGACTATCCCCCGACAGGGTCACCTTTTCTGCAACAACAGAGGCTTCCATGAACCCACAT
CGCTGACTCCTGGCCGAGCTCCAGGACCACTTCTCAGCTGTGAAGCTCGTGGGGCCGGAGGAGGCTCTGAGCCC
AGGCGAGGCCAGGGACATGGCCATGGACCTGTGTGGCAGGACCCCGAGTGTGAGTTCTACTTCAGCCTGGACGC
CGACGCTGTCTCAACCAACCTGCAGACCCTGCGTATCCTCATTGAGGAGAACAGGAAGGTGATCGCCCCATGCT
GTCCCGCCACGGCAAGCTGTGGTCCAACCTTCTGGGGCGCCCTGAGCCCCGATGAGTACTACGCCCCGCTCCGAGGA
CTACGTGGAGCTGGTGCAGCGGAAGCGAGTGGGTGTGTGGAATGTACCATACATCTCCAGGCCTATGTGATCCG
GGGTGATACCTGCGGATGGAGCTGCCCCAGAGGGATGTGTTCTCGGGCAGTGACACAGACCCGGACATGGCCTT
CTGTAAGAGCTTTCGAGACAAGGGCATCTTCTCCATCTGAGCAATCAGCATGAATTTGGCCGGCTCCTGGCCAC
TTCCAGATACGACACGGAGCACCCTGCACCCCGACCTCTGGCAGATCTTCGACAACCCCGTCGACTGGAAGGAGCA
GTACATCCACGAGAACTACAGCCGGGCCCTGGAAGGGGAAGGAATCGTGGAGCAGCCATGCCCGGACGTGTACTG
GTTCCCACTGCTGTGTCAGAACAAATGTGTGATGAGCTGGTGGCAGAGATGGAGCACTACGGCCAGTGGTCAGGCGG
CCGGCATGAGGATTCAAGGCTGGCTGGAGGCTACGAGAATGTGCCACCGTGGACATCCACATGAAGCAGGTGGG
GTACGAGGACCAGTGGCTGCAGCTGCTGCGGACGTATGTGGGCCCATGACCGAGAGCCTGTTTCCCGGTTACCA
CACCAAGGCGCGGGCGGTGATGAACTTTGTGGTTTCGCTACCGGCCAGACGAGCAGCCGTCTCTGCGGCCACACCA
CGACTCATCCACCTTACCCCTCAACGTTGCCCTCAACCACAAGGGCCTGGACTATGAGGGAGGTGGCTGCCGCTT
CCTGCGCTACGACTGTGTGATCTCTCCCCGAGGAAGGGCTGGGCACTCCTGCACCCCGGCCGCTCACCCTA
CCACGAGGGGCTGCCAACGACCTGGGGCACACGCTACATCATGGTGTCTTTGTGACCCCTGACACTCAACCAC
TCTGCCAAACCTGCCCTGCCATTGTGCCTTTTTAGGGGGCCTGGCCCCGCTCCTGGGAGTTGGGGGATGGGTCTC
TCTGTCTCCCACTTCTGAGTTCATGTTCCGCGTGCTGAATGAATATGTCACCTTGCTCCCAAGACACGGCC
CTCTCAGGAAGCTCCCGGAGTCCCGCCTCTCTCTCCGCCACAGGGGTTCTGTTGGCACAGGGCTTCTGGGGAC
TCCCGCGTGATAAATTATTAATGTTCGCGAGTCTCACTCTGAATAAAGGACAGTTTGTAAAAAAAAAAAAAAAA
AA

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FIGURE 2370

MTSSGPGPRFLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTVRTLGLGEEW
RGGDVARTVGGGQKVRWLKKEMEKYADREDMIIMFVDSYDVILAGSPTELLKKFVQSGSRLLFSAESFCWPEWGL
AEQYPEVGTGKRFLNSGGFIGFATTIHQIVRQWKYKDDDDQLFYTRLYLDPGLREKLSLNLDHKSRIQNLNGA
LDEVVLKFDRNRVRIRNVAYDTLPPIVHNGPTKLQLNYLGNYPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFL
AVFVEQPTPFLPRFLQRLLLLDYPPDRVTLFLHNNEVFHEPHIADSWPQLQDHFSAVKLVGPPEEALSPGEARDMA
MDLCRQDPECEFYFSLDADAVLTNLQTLRILIEENRKVIAPMLSRHGKLWSNFWGALSPDEYYARSEDYVELVQR
KRVGVWNPYISQAYVIRGDTLRMELPQRDVFSGSDTDPDMAFCKSFRDKGIFLHLSNQHEFGRLLATSRYDTEH
LHPDLWQIFDNPVDWKEQYIHENYSRALEGE GIVEQPCPDVYWFLLSEQMCDELVAEMEHYGQWSGGRHEDSRL
AGGYENVPTVDIHMKQVGYEDQWLQLLRITYVGPMTESLFPGYHTKARAVMNFVVRYPDEQPSLRPHHDSSTFTL
NVALNHKGLDYEGGGCRFLRYDCVISSPRKGWALLHPGRLTHYHEGLPTTWGTRYIMVSFVDP

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FIGURE 2371

GCAGTTTATTCCGACAGTTGTGTGTGTGCCAATGGTGGAGAAGAAAACCTTCGGTTCGCTCCCAGGACCCCGGGCAG
CGGCGGGTGCTGGACCGGGCTGCCCGGCAGCGTCGCATCAACCGGCAGCTGGAGGCCCTGGAGAATGACAACTTC
CAGGATGACCCCCACGCGGGACTCCCTCAGCTCGGCAAGAGACTGCCTCAGTTTGATGACGATGCGGACACTGGA
AAGAAAAAGAAGAAAACCCGAGGTGATCATTTTAACTTCGCTTCCGAAAAAACTTTCAGGCCCTGTTGGAGGAG
CAGAACTTGAGTGTGGCCGAGGGCCCTAACTACCTGACGGCCTGTGCGGGACCCCATCGCGGCCCCAGCGCCCC
TTCTGTGCTGTCTGTGGCTTCCCATCCCCCTACACCTGTGTGCTCAGCTGCGGTGCCCGGTACTGCACTGTGCGCTGT
CTGGGGACCCACCAGGAGACCAGGTGTCTGAAGTGGACTGTGTGAGCCTGGGCATTCCCAGAGAGGAAGGGCCGC
TGTGCACTGCCCGGCCTTCAGAAAGACAGAATTTTCATCACCCAATGCAGGGGGAGCTCTTCCTGGACCAAGGGAG
GAGCCGCTCATTACCCAACAAAACCTGTGTCTTATCTGCCAGGAAAGACCAGCCTCACTCCTGGGAACCTGTCTGG
CAGGTAGGCTGGGCCCCCAGTGCTGTTAGAATAAAAAGCCTCGTGCCGG

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FIGURE 2372

MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDDADTGKKKKKTRGDH
FKLRFRKNFQALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVCGFPSPYTCVSCGARYCTVRCLGTHQETRCL
KWTV

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FIGURE 2373

ATATACTTGC GCGCCGACGCCGCCGCTCGCTTGTGAACTGGAAGGCTGCCATGGCTAGCCCAGCCGCCTCCTCG
GTGCGACCACCGAGGCCCAAGAAAGAGCCGACAGCGCTCGTCATCCCCAAGAATGCGGCGGAGGAGCAGAAGCTC
AAGCTGGAGCGGCTCATGAAGAACCCGGACAAAGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGA
CCTCCCCCAGAATTTGTCCGAGATGTCATGGGTTCAAGTGTGGGGCCGGCAGTGAGAGTTCCACGTGTACAGA
CATCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAAATTGGATGCAGAG
TTTCAGAAAAGACTGGAAGAATAAAATTGCTGCAGAGGAGCAGACCGCAAAGCGCCGGAAGAAGCGCCAGAAG
TTAAAAGAGAAGAAATTACTGGCAAAGAAGATGAACTTGAACAGAGAACAAGAAGGACCCGGTCAGCCCAAG
GAGCAGGGGTCCAGCAGCTCTGCGGAGGCATCTGGAACAGAGGAGGAGGAGGAAGTGCCAGTTTCACCATGGGG
CGATGACAATGTTTGCCACAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAAAGGCGGCTGTTTG
GCTCTTTCTCCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCAAAGGAGACCCCTCCCGAGCCGCTCACAG
TCCTGTATTTGGCAGGTTTGGGAGCCTGAGGGGCCATCTCCCTGACACTCAGAGGCACTGCCTTGCAGACACCAT
CCGTGCTCCTGGTAAAGGGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTT
TCTGGGAAGGGAACGTTTATTTAGTAAAGAGCAGAACCCCTTGCGTTTTGTTGGGACATGTGGACCGTGAGTCG
CAAACACTCTGGAGAAGGCTGAGATGCCACCATTCCCACGGGGACTGAAGACACATTACGTGGACCTGGTCCAG
GCTCAGTGAGGAGATGGCCTCAGCTGTGGGGCTGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAC
GCCATAGAGGGTCTGCTCCCACTGCAGCTCCCGGTGCTCTCGTGTCTGGGAAGGCCTGGGTGTGTGCACAAGGA
GGCCCGGGCCAGGGACTTCACCAGGGGCTGGGTACAAGGGCACAGGGTGTGTGGAAGCGCTGTGGGGGAAGAG
CCGGTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGCCAGAGCAGAAGGCGAGGGATTCCAGCC
GGACGGGGGTCTCTCACCAACAGCTGTGATTTTCATCCCGAAGTGAAGGGGGTCTAAACAGAACAGGCTGAGAG
AGGCGGGACTGGGTCAAGTGGGTGGAGCTCCTCCTTGATGACTGCAACTGTCGGGGCTTTCCGCCGGCTCACAG
CAGTTGGGGCCAGCGGGGAGAAGAGAGGCGGAAGTGTGTCTCAGTGGCGCAGCCTCAAACCTGGCATCCAG
GCACTGGGCGCGTGACAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCCGGCGCAGGGGCATGCGCCTAGAATCCCA
GCTACTCGGAAGGCCAAGGCAGGAGGACCGCTTGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGAC
CCTGTCTCTTAAAAACGATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCCTGGGAGGA
GCCGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTAGTTAGAGCCTTGG
CTCCATTTTGGATGATTTAGCCCCGAGTTCCTGAGTCTATTTTATGCCCCTTACGTACTTTGATAGAACTAAGG
AAATAGTGGTTTTGAGTGAAGGGAAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTG
CCCCGGCCCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTCATGTACAGGGATTTT
CTTTCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTACATTTTGAAACCTG

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FIGURE 2374

MASPAASSVRPPRPKKEPQTLVIPKNAAEQKLKLERLMKNPDKAVPIPEKMSEWAPRPPPEFVRDVMGSSAGAG
SGEFHVYRHLRRREYQRQDYMDAMAEKQKLDAEFQKRLEKNKIAAEEQTAKRRKKRQKLKEKKLLAKKMKLEQKK
QEGPGQPKEQGSSSSAEASGTEEEEEEVPSFTMGR

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FIGURE 2375

CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGGGAGCCGAGCCGGGCG
GGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGGATGCGGTGCTGCTGGCTGCGGATGTGCGCAA
GGAGATGGGATGGAGAGCCTGAGTTGGCATTTCGTATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTA
ACGTGCCTATCGACCCCTCTGCTCCTGCCCTGCCCTGAGCCCGGCCATAAGGGCATGGATTACCGGGACTGGGTCC
GCCGCAGCTACCTGGAACCTGGTCACCTCTAACCACCCTCGGTACAGGCCCTGTCGTGGCGGAAGCTCTACCTGA
GCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGG
TGCAGCTGGAGACGCAGTACCAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCTGCACCACGGTGTCTGGTGG
CCGTGCACCTGTTTCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACC
TGAATCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGGCCTGGGGCTTCTCCACCGTGC
TTGGCATCCTACTCTTCTTGCCCGAGGTGGTGTCTGCTGCTGCTGGATCAAGTTCTTCCCCGTGGATGCCCCGCGCC
AGCCTGGCCCCCACCTGGCCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGC
CCGTGGGCCTCATCTTCTGTTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACA
ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTGTGAG
GGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGGAGTCCGCGAGAGCGGGGATTTGTGATGCAGACAT
TTTGCAAGGCTGCCGGGTAGTTCAAGACCAAAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTC
CTGAGATAGAACCGTTTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGGCTGGTTCCTT
GGCCTCGGGGTTTCTTGGGTGCGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATCAGTCTTGGGCCAGGA
GGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCC
AGGGCAGGGTTTTGCGTTCAGAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCCGT
GTGACAGTGATGACACGAAGGCTTCGGCGTTTTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGTCTCCCTGCCT
GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTCAGCCCAGCAGGTGTG
GGGGTGCTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATGTTTCCAATGGTGGGCAGCCTGGCCAGGCCG
GAGAAGACATGTTACGGGCATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTA
CGCTAGGCTCAAATTCTCTTTTCCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGGGGTGGGGAAA
GGACCCCTCCCCCACCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTCTAAGGCTGACTCAGC
CACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGCTCTGGCTCAGGCCCGGAGCCTGTGCAGCTTGCCCATGGC
CCTAGGCAGCGAGGGGACAGCCTGGGGGACTTCTTGCTAGGCAAGGTCATTGGCCGGGCTGGCCTGTGGATAG
TGGGGCCAGGGGCCGGCCAGGCCAAATGAGTGGCCTCCTTGTATGACACCAAGTACTACAAGGGAGGCAAGA
CCCCTCCAGGCCTCTCAGCCGACACTGGGTCCCACCACACAGTGACTGTGCCGTGAGTGCAGGTTCTGGCCT
TTTCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCCGCACATGCACGCCGACGACCAGCTGCCCT
GAGCTGCTTGTACAACCAACACCTTTCCCTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCCTGTCTTT
TGTTCTCATAAATAGTCACTGGGGCCGGGCGCAGTCACTCACGCCGTGTAATCCCAGCACTTTGGGAGGCCTAGGT
GGGCGGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAT
ACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGCTACTTGGGAGGCTGAGGCGGGAGAATGGCA
ATGGCGTGAACCCGGGAGGCAGAGCTTGCAGTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGC
CAGACTCCATCTC

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FIGURE 2376

CGGCGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGCGGGAGCAATGAACGCCCCCTCCAGCCTTCGAGTCGTT
CTTGCTCTTCGAGGGCGAGAAGATCACCATTAAACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATCAA
CAAAGAAGACCACACACTGGGAAACATCATTAATCACGTGCCTGCTTCCCCCTTCGCCTTCTGCCGTGATTGTCA
GTTTCCTGAGGCCTCCCCAGCCACGCTTCCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTATGTGC
CCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCTGTCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGT
TCAGCAGCCACAACATCTCTTGA

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FIGURE 2377

MNAPPAFESFLLFEGEKITINKDTKVPNACLFTINKEDHTLGNIIKSRACFPFAFCRDCQFPEASPATLPVQPAE
LCPRAHQLCAPALKRHLGGEAHPVHLHAGAASRPVQQPOHL

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FIGURE 2378

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTTCAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTTCGGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTTACTTCATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTCGTGAACTCTTTGAAATGGCCAGAACAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAACGTATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCGGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATACAACTGAACCCTGAAGGCTTTCAAGTGAAAACTTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAATGG

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FIGURE 2379

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGSTYSRQIKQVEDDIQQLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSDQVAPTDIEEGMRVGVDRNKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSDVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTL
ARAVANRIDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRNIKVLMATNRPDTLDPALMRPGRDLDRKIEFSLPDLEGRTHIFKIHARMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKATEKDFLEAVNKVIKSYAKFSATPRYMTYN

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FIGURE 2380

CTTCCCTCTGCCAACATGGCGGCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGGA
TGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCCTCCAATTGACCG
TTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACC
CTACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAA
TATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGTTATGCTGAATTTGA
GGACCTGGATTCCCTGCTCAGTGCCTGAGTCTCAATGAAGAGTCTCTAAGTAACAGGAGAATTCGAGTGGACGT
TGCTGATCAAGCACTGGATAAAGAGTATCGAGATCGTTATGATTTCAGACCGGTATCGGGATGGGTATCGGGATGG
CCCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGG
CTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGCGCAGTGGGTATCGCAGGGATGATGACTACAGAGAAGG
CAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTTCGTGGAGCTCCAGAGATGATTACTCTCGGGA
TGATTATAGGCGTGATGATAGAGGTCCCCCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTCGGAGTACTCCT
AAGGAAGATGATTCCTCTGCTAGTAACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTT
G

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FIGURE 2381

CCTAACAGACTTTCTGGCTGAGGATGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGC
TGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCC
TCCAATTGACCGTTCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAGAGACACCCAAGCTGGCAAAGTGAAGA
AACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAA
TGCATGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAAC
TTCTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGCTTGGGTGAA
GCGAAGTTCTAACCTCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGGGGGAAA
AGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCC
AAAAGGCCAACTGGGAACTCTAGCCGTGGTCCAGGAGACTGAGGGAACAGAGACCACTGGAAGGAGTCAGATAG
GAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAA
GTTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCAA
ATAGACCTCTACATCCTGTGCTTTTTCTCCTAGTTTCTCTCCACCTGGAACATTCGAGAGCAAATCAAAACCTCT
ATCCAGACAAGACAAAATAAACTCACCATCTCCTGAAGACCTTTCTTACCTTTTTTTTAAACAAAAAATGAAA
TTATTTTGCATGCTGCTGCGAGCCTTTAAAGTATTGAAGTAAGTGGAGAATTGCCAATACAGCCAGAGAGAAAGGG
ACTACAGCTTTTTAGAGAAGTTGTGGTGCCTTATGTCACCATGCGAGTTGCCAGTGTGATTAGTGCCTAGGGGTCT
CCATTTAGCAGAAATGGTAATGACAGTGATATAACGCCTGGAACCTGGTTGGGCAGTAGGGGAGGGAGGTAGAAG
GAAAAGTGTGAGATTTCTACCTTTTAGTTTTTTTTCTATTGTGGCATATATGAATTCTCAAACATTATCTGAATA
AATTTTCCATTCTTGGAAGGTAGATTTAGCCTCAAGTTGTTTTAGTCTCCAGGAGGCTGCCAGCCCCCTCCTCTT
ATTTAATTCTGAGTTTTGGGGGACAGCCTAGAGGGAATTCCTTTTTTTTTTTTTTACCCCCAAGGGGGTAG
TTGGGAGTGAGACTATAGGCCATAAAGAATGGGACTCATTGGACCAAAATAAATGGGAAAATCGTGGTTTGAAAG
GAAGCTTTTGGGAATTGATGAGTCATTTTGCACCAGGTAATAGGGGAAAATGTGTGACCTCCAGCAAACACATG
AATGGTTATTTCTGAGCCGGAAGCACTTGGGGGTCGTGGTAATCCCAATGTTTTCTGTGCTAGTTTACC
CTTTCTAAACACTGTCCTTTTGAAGTTTGAATATATCCACATTCTATTGAAACCTTGAAACTAAAAATTTAGA
CTCTTATCGTCATCTTAAGTTCTTCATGCTACTCTTAACCTCCCAAAAAGCAGTATCTAAGTCACATACATGATG
TCTTGGGCATTTTCTCTCTCAGCCATGGAGAAGTCTGAAAGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTT
CTTGATATCTTCTGTTTCTCACTCCTTGCTGCTGCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGA
ATAATGGATGGTCTTGATGGTGGATAAATAGGGACAGGGACAGTTAAATGGGAGCCTTTCTTACAACCTTGAT
GGGTTTTTTTCCCCCAAGTTTCTTCTCCACTGAAATGCCACACTAATGTTTGTGGATTGATGAGGTGGCCAG
ACCAATGTGTTTTGTTTTGTTTTTTTTTTTTTAAAGCTTCCCTTGAGAGAATAAACGGAAATGGAGAGAACTATT
AACAAGGTCCTGGTTTCTCTTCAACACAGTAGCTAAACTTGCCTGCCTTTATATGCATTTTGTAGGGATCAGC
TTGGTAGACAGTATTAGCAGAGAAACACCTTGATCTTGGTTTGCAAACCTTCTGCCATCAGTCCTAGATTAGGC
CCTGTTACAGCCATGCAGGGGTGTTGGTTTATGCGTGCTGCAGCAGTGGGCATAATGAATATAATTTACCCAGTGG
ACAAAGGTGTGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAG
TATTGAAGATTGAAAGGTGTTTTTTTTCTTTTTTAAAAAAGAAAAAAACTATTGATTGTAGATAATGAAAGC
TAGGGTTTGGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATCCAAAAGTGTTCCTGTCCCTACCT
TGTCCCCCATTAATAAGAAACAGGGATTGATTAATGTCCCGCTCCTGAATACATGTAAAATTTGTACAAAA
TATCTTCTATGAAATGATTTGTAATCTGTAGACTTATTACCTGGGAGATGTCTTGATGTAAAATCCCATCCTTT
GGGTTGTGGGTTTTTGTTCCTCCAAATAAATCTGATCTTTAAAGTTC

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FIGURE 2382

MAASAKKKKKGKTISLTDFLAEDGGTGGGSTYVSKPVSWAETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLGNRRIRVDVADQAQDKDRDRSFGRDRNRDSKTDTDWRARPATDSFDDYPPRRGDDSFSGDSYD
SRIGSGRRAFGSGYRRDDYRGGGDRYEDRYDRRDRSWSSRDDYSRDDYRRDDRGPPQRPKLNKPRSTPKEDD
SSASTSQSTRAASIFGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLERRPRERHPSWRSEETQERERSRTG
SESSQTGTSTTSSRNARRRESEKSLENETLNKEEDCHSPTSKPPKPDQPLKVMPPAPPKENAWVKRSSNPPARSQ
SSDTEQQSPTSGGGKVAPAQPSEEGPGRKDENKVDGMNAPKGQTGNSSRGPGDGGNRDHWKESDRKDGKKDQDSR
SAPEPKKPEENPASKFSSASKYAALSVDGEDENEGEDYAE

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FIGURE 2383

GTAGCGGGAGCGGAGAGCGGACCCCGGAGAGCGGACCCAGAGAACCCTGAGCAGCCCCGCCGCTGCCGGCCTAG
TTACCGTCATACCACGGGAGGAGCCGCAGCTGCCGCAGCCGGCCCCAGTCTCCATCACCAGCAACCAATGAGCAGC
AAGGCCGAGACCCAGCAGCCACCCGCCGCCCGCCCTTTCCCCCACCAGCCCCCTCCCGTCCCCCGCGGCC
CGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCAC
ATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTGGGAACAGTAAATGGTTCAATGT
AAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAA
TAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGG
TGCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCA
TTATAGACGCTATCCACGTCATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGA
AAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCC
ACCTTACTACATGCGGAGACCCCTATGGGTGTGACCACAGTATTCAGCCCTCCTGTGCAGGGAGAAGTGATGGA
GGGTGCTGACAACCAGGGTGCAGGAGAACAAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACG
ATTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAG
ACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCAGAAAACCT
AAATCACAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAG
GGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGTTTGTAGTCATCCAACAAGAAGAAATATGAA
ATTCCAGCAATGAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTGGCCGTTGACCAGAT
AAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTTATTATTTTACCTAAATATGTCTCTTTTGGTAA
TAACAAACGTGTTTTTTTTAAAAAGCCTTGTTTTCTCAATACGCCTTTAAAGG

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FIGURE 2384

MRRPYGCRPQYSSPPVQGEVMEGADNQGAGEQGRPVQRNMYRGYRPRFRRGPPCQRQPREYGNEEDKIKEMRPRV
SSHLNVGTAATSITNADAQKTLNHKMAKRQNQPIHQLRIRLLPRLSRAGLSKCRLTISTIIIRFSHPTRRNMKFQQ

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FIGURE 2385A

GGGACCTGGAAGCGCCCCAGCCCCGAGCGATCGCAGATTTCGGCTTTCAAACAAAAGAGGCGCCCCGGGGGGTGG
GACCGGGACCTCACCCGGTCCCTCGCAGAGTTGCGGCCGCCCGCCCTTCAGCCCCGGCTCTCCGTATGCGCATGA
GCAGAGGCGCCTCCCTCTGTTCCTCCCAAGGCTAAACTTTCTAATTCCCTTCTTTGGGCTCGGGGGCTCCCGGAG
CAGGGCGAGAGCTCGCGTCGCGGAAAGGAAGACGGGAAGAAAGGGCAGGCGGCTCGGCGGGCGTCTTCTCCACT
CCTCTGCCCGTCCCCGTGGCTGCAGGGAGCCGGCATGGGGCTTCTCEAGTTGCTAGCTTTTCTTCTAGCCC
TGTCAGAGCCCCGAGTGCAGCGCTCAGGAACCCGAGTTTACGTACGGCTGCGCAGAAGGCAGCTGCTATCCCGCCA
CGGGCGACCTTCTCATCGGCCGAGCACAGAAAGCTTTCCGGTGACCTCGACGTGCGGGCTGCACAAGCCCGAAGCC
TACTGTATCGTCAGCCACTTGCAGGAGGACAAAAATGCTTCATATGCAATTCCCAAGATCCTTATCATGAGACC
CTGAATCCTGACAGCCATCTCATTGAAAATGTGGTCACTACATTTGCTCCAAACCGCCTTAAGATTGGTGCGCAA
TCTGAAAAATGGTGTGAAAAATGTAATATCCAAGTGGATTGGAAGCAGAATTCATTTTACTCATCTCATAATG
ACTTTCAAGACATTCCGTCCAGCTGCTATGCTGATAGAAGCATCGTCCGACTTTGGGAAAACCTGGGGTGTGTAT
AGATACTTCGCTATGACTGTGAGGCCTCGTTTCAGGCATTTCAACTGGCCCCATGAAAAAAGTCGATGACATA
ATTTGTGATTCTCGATATTCTGACATTGAACCTCAACTGAAGGAGAGGTGATATTTCGTGCTTTAGATCCTGCT
TTCAAATAGAAGATCCTTATAGCCCAAGGATACAGAAATTTATAAAAATTACCAACTTGAGAATCAAGTTTGTG
AAACTGCATACTTTGGGAGATAACCTTCTGGATTCCAGGATGGAAATCAGAGAAAAGTATTATTATGCGATTTAT
GATATGGTGGTTCGAGGAAATGCTTCTGCTATGGTCATGCCAGCGAATGTGCCCTGTGGATGGATTCAATGAA
GAAGTGAAGGAATGGTTCACGGACACTGCATGTGCAGGCATAACACCAAGGGCTTAAACTGTGAATCTGCGATG
GATTTCTACCATGATTTACCTTGGAGACCTGCTGAAGGCCGAAACAGCAACGCCTGTAAAAAATGTAAGTGAAT
GAACATTCATCTCTTGTCACTTTGACATGGCTGTTTACCTGGCCACGGGGAACGTGACGGAGGCGTGTGTGAT
GACTGTGACACAACACCATGGGGCGCAACTGTGAGCAGTGCAAGCCGTTTTACTACCAGCACCCAGAGAGGGAC
ATCCGAGATCCTAATTTCTGTGAACGTATGTACGTGTGACCCAGCTGGCTCTCAAATGAGGGAATTTGTGACAG
CTATACTGATTTTCTACTGGTCTCATTGCTGGCCAGTGTCGGTGTAATTAATGTGGAAGGAGAACATTGTGA
TGTTTGCAAGAAGGCTTCTATGATTTAAGCAGTGAAGATCCATTTGGTTGTAAATCTTGTGCTTGAATCCTCT
GGGAACAATTCCTGGAGGGAATCCTTGTGATTCCGAGACAGGTCAGTCTACTGCAAGCGTCTGGTGACAGGACA
GCATTGTGACCAAGTGCCCTGCCAGAGCACTGGGGCTTAAGCAATGATTTGGATGGATGTGACCATGTGACTGTGA
CCTTGGGGGAGCCTTAAACAACAGTTGCTTTGCGGAGTCAGGCCAGTGCTCATGCCGGCCTCACATGATTGGACG
TCAGTGCAACGAAGTGAACCTGGTTACTACTTTGCCACCCTGGATCACTACCTCTATGAAGCGGAGGAAGCCAA
CTTGGGGCCTGGGGTTAGCATAGTGGAGCGGCAATATATCCAGGACCGGATTCCCTCCTGGACTGGAGCCGGCTT
CGTCCGAGTGCCCTGAAGGGGCTTATTGGAGTTTTTCATTGACAACATACCATATTCCATGGAGTACGACATCCT
AATTCGCTACGAGCCACAGCTACCCGACCACTGGGAAAAAGCTGTGATCACAGTGCAGCGACCTGGAAGGATTCC
AACCAGCAGCCGATGTGGTAAATACCATCCCGATGATGACAACCAGGTGGTGTGCTTATCACCAGGCTCAAGATA
TGTCGTCTCTCCTCGGCCGGTGTGCTTTGAGAAGGGAACAACTACACGGTGAGGTGGAGCTGCCCTAGTACAC
CTCCTCTGATAGCGACGTGGAGAGCCCCCTACACGCTGATCGATTCTTGTCTCATGCCATACTGTAATCACT
GGACATCTTACCGTGGGAGGTTTCAGGAGATGGGGTGGTCACCAACAGTGCCTGGGAAACCTTTAGAGATACCG
ATGTCTAGAGAACAGCAGAAGCGTTGTGAAAACCCGATGACAGATGTTTGCAGAAACATCATCTTTAGCATTTT
TGCCCTGTTACACCAGACAGGCTGGCTTGTGAATGCGACCCTCAGGGTTTCGTTAAGTTCCGTGTGTGATCCCAA
CGGAGGCCAGTGCCAGTGCCGGCCCCAACGTGGTTGGAAGAACCTGCAACAGATGTGCACCTGGAACCTTTGGCTT
TGGCCCCAGTGGATGCAAACCTTGTGAGTGCCATCTGCAAGGATCTGTCAATGCCTTCTGCAATCCCGTCACTGG
CCAGTGCCACTGTTTCCAGGGAGTGATGCTCGGCAGTGTGATCGGTGCTTACCTGGGCACTGGGGCTTTCCAAG
TTGCCAGCCCTGCCAGTGCAATGGCCACGCCGATGACTGCGACCCAGTGACTGGGGAGTGCTTGAAGTGGCAGGA
CTACACCATGGGTGATAACTGTGAAAGGTGCTTGGCTGGTTACTATGGCGACCCCATCATTGGGTCAGGAGATCA
CTGCCGCCCTTGCCCTTGCCAGATGGTCCGACAGTGGACGCCAGTTTGCCAGGAGCTGCTACCAAGATCCTGT
TACTTTACAGCTTGCTGTGTTGTGTAICTGGATACATTTGGTTCCAGATGTGACGACTGTGCTCAGGATACCTT
TGGCAATCCATCAGAAGTTGGGGGGTCTGTGACGCTTGCCAGTGTGCAACAACATTGACACGACAGACCCAGA
AGCCTGTGACAAGGAGACTGGGAGGTGTCTCAAGTGCCTGTACACACGGAAGGGGAACACTGTGCTGCTGCCG
GTTTGGATACTATGGTGTATGCCCTCCAGCAGGACTGTGCAAAAGTGTGTCTGTAATTACCTGGGCACCGTGAAGA
GCACTGTAACGGCTCTGACTGCCAGTGCACAAAGCCACTGGTCAGTGCTTGTGTCTTCTAATGTGATCGGGCA
GAAGTGTGACCGCTGTGCGCCCAATACCTGGCAGCTGGCCAGTGGCACTGGCTGTGACCCATGCAACTGCAATGC

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FIGURE 2385B

TGCTCATTCTTCGGGCCATCTTGCAATGAGTTCACGGGGCAGTGCCAGTGCAATGCCTGGGTTTGGAGGCCGCAC
CTGCAGCGAGTGCCAGGAACCTCTTCTGGGGAGACCCCGACGTGGAGTGCCGAGCCTGTGACTGTGACCCAGGGG
CATTGAGACGCCACAGTGTGACCAGTCCACGGGCCAGTGTGTCTGCGTTGAGGGTGTGAGGGTCCACGCTGTGA
CAAGTGCACGCGAGGGTACTCGGGGGTCTTCCCTGACTGCACACCCTGCCACCAGTGCTTTGCTCTCTGGGATGT
GATCATTGCCGAGCTGACCAACAGGACACACAGATTCTTGGAGAAAGCCAAGGCCTTGAAGATCAGTGGTGTGAT
CGGGCCTTACCGTGAGACTGTGGACTCGGTGGAGAGGAAAGTCAGCGAGATAAAAGACATCCTGGCGCAGAGCCC
CGCAGCAGAGCCACTGAAAAACATTGGGAATCTCTTTGAGGAAGCAGAGAAAAGTGAATAAAGATGTTACAGAAAT
GATGGCTCAAGTAGAAGTGAAATTATCTGACACAACCTCCCAAAGCAACAGCACAGCCAAAGAACTGGATTCTCT
ACAGACAGAAGCCGAAAGCCTAGACAACACTGTGAAAGAACTTGTGAACAACCTGGAATTTATCAAAAACCTCAGA
TATTCGGGGTGCCTTGATAGCATTACCAAGTATTTCCAGATGTCTCTTGAGGCAGAGGAGAGGGTGAATGCCTC
CACCACAGAACCACAGCACTGTGGAGCAGTCAGCCCTCATGAGAGACAGAGTAGAAGACGTGATGATGGAGCG
AGAAATCCAGTTCAAGGAAAAACAAGAGGAGCAGGCTCGCCTCCTTGATGAACTGGCAGGCAAGCTACAAAGCCT
AGACCTTTTCAGCCGCTGCCGAAATGACCTGTGGAACACCCCCAGGGGGCCTCCTGTTCCGAGACTGAATGTGGCGG
GCCAAACTGCAGAACTGACGAAGGAGAGAGGAAGTGTGGGGGGCCTGGCTGTGGTGGTCTGGTTACTGTTGCACA
CAACGCCTGGCAGAAAGCCATGGACTTGGACCAAGATGTCTGAGTGCCCTGGCTGAAGTGGAAACAGCTCTCCAA
GATGGTCTCTGAAGCAAACTGAGGGCAGATGAGGCAAAACAAAGTGCTGAAGACATTCTGTTGAAGACAAATGC
TACCAAAGAAAAATGGACAAGAGCAATGAGGAGCTGAGAAATCTAATCAAGCAAAATCAGAAACTTTTGTACCCA
GGATAGTGCTGATTTGGACAGCATTGAAGCAGTTGCTAATGAAGTATTGAAAATGGAGATGCCTAGCACCCACA
GCAGTTACAGAACTTGACAGAAGATATACGTGAACGAGTTGAAAGCCTTTCTCAAGTAGAGGTTATCTTCAGCA
TAGTGCTGCTGACATTGCCAGAGCTGAGATGTTGTTAGAAGAAGCTAAAAGAGCAAGCAAAAGTGCAACAGATGT
TAAAGTCACTGCAGATATGGTAAAGGAAGCTCTGGAAGAAGCAGAAAAGGCCAGGTGCGCAGCAGAGAAGGCAAT
TAAACAAGCAGATGAAGACATTCAAGGAACCCAGAACCTGTAACTTCGATTGAGTCTGAAACAGCAGCTTCTGA
GGAAACCTTGTTCAACGCGTCCCAGCGCATCAGCGAGTTAGAGAGGAATGTGGAAGAACTTAAGCGGAAAGCTGC
CCAAACTCCGGGGAGGCAGAAATATATTGAAAAAGTAGTATATACTGTGAAGCAAAGTGCAAGATGTTAAGAA
GACTTTAGATGGTGAACCTTGATGAAAAGTATAAAAAAGTAGAAAATTTAATTGCCAAAAAACTGAAGAGTCAGC
TGATGCCAGAAGGAAAGCCGAAATGCTACAAAATGAAGCAAAACTCTTTTAGCTCAAGCAAATAGCAAGCTGCA
ACTGCTCAAAGATTTAGAAAGAAAATATGAAGACAATCAAAGATACTTAGAAGATAAAGCTCAAGAATTAGCAAG
ACTGGAAGGAGAAGTCCGTTCACTCCTAAAGGATATAAGCCAGAAAGTTGCTGTGTATAGCACATGCTTGTAAACA
GAGGAGAAATAAAAAATGGCTGAGGTGAACAAGGTAAACAACCTACATTTTAAAAACTGACTTAATGCTCTTCAA
ATAAAACATCACCTATTTAATGTTTTAATCACATTTTGTATGGAGTTAAATAAAG

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FIGURE 2386

CTCTTTTTCCGGCTGGAACCATGGTGGGTGTAGAAGAGAAGAAGAAGGTTCTTGCTGTGCCAGAAACCTTAAGA
AAAAGCGAAGGAATTTCTCAGAGCTGAAGATGAAGCGCCTGAGAAAAGAAGTTTGCCCAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAGGGAATATAGGCAGATGTACAGAACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTACTTTGTACCTGCAGAACCCAACTGGCATTGTGCATCAGAA
TCAGAGGTATCAGTGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTACAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGACTAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAACTAATCTACAAGAGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATATGGCATCATCTGCATGGAGGATCTGATTCATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAACTAAGGTGTCTACCATGACTATTTCTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 2387

CTTCCTAGAAGGTAAATGTACGAACTCGTCTCCAAAGGATACTTAGGTTGCACCAAGTGTATTTGTAAACAGGAGC
AAATTTGGACCTTGCCGGGCCAAAGTCGTGTCACGTGGAACCTCTTAATCTCAGCATCCGGAGCTCCAGGAAGGG
AAAATTTCAAGTCAGATAGAATTCTATATATACCATTCTAGGAACCTTCAGCCCTCAAGATTCCAACATCATGA
CCTCAGTTTCAACACAGTTGTCCTTAGTCCTCATGTCACCTGCTTTTGGTGCTGCCTGTTGTGGAAGCAGTAGAAG
CCGGTGATGCAATCGCCCTTTTGGTTAGGTGTGGTTCTCAGCATTACAGGCATTTGTGCCTGCTTGGGGGTATATG
CACGAAAAAGAAATGGACAGATGTGACTTTGAAAGGCTACTGAGTCAAACCTCACCTGAAAACCTTTGCGCTT
TAGAGGCTAAACCTGAGATTTGGTGTGTGAAAGGTTCCAAGAATCAGTAAATAAGGGAGTTTCACATTTTTCATT
GTTTCCATGAAATGGCAACAAACATACATTTATAAATTGAAAAAAATGTTTTCTTTACAACAAATAATGCACA
GAAAAATGCAGCCTATAATTTGCTAGTTAGGTAGTCAAGAAGTAAGATGGCTGAAATTTACATAAGTAATATTT
CATAATCTTAGAATTCTCTCAAAGCATGTGAAATAGGAAGAAGGAAGTTCTTGCCAGAACTTAGGAAATCACC
ACTGTTTCGGTTATAATCACCTGCTCCTGAATCGTTGAGGAGTCTTTTAAATTAGATTTTTGTTTGTGCTCCC
AAGTTAATATTATATTTAGATATCAGAGAGTCAGGCAAAAAGGAAAACCTTTATCTCTAGGGAAAAACATTTAG
AAAAATGTATTTCAGTGTATCTAATACTGAAATGCGGAAAAAAATTTAATGTTAAAAAAACTATAGACATTGAC
ATGGAAAAGAGATTTAATGTTTTGAAAAAAACCTTTATATTAAGTGAACATCCTCCTGATGAGAAGTACTAT
ATTAAATATAAACCCATTATGTTAT

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FIGURE 2388

MYELVSKGYLGCTSVFVKQEQIWTLPGQSRVTWNLLISASGAPGRENFKSDRILYIPFLGTFSPQDSNIMTSVST
QLSLVLMSSLLLVLPVVEAVEAGDAIALLLGVVLSITGICACLG VYARKRNGQM

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FIGURE 2389

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCGCGAGGTTTCCCGTGTTCCGACGCGGAGCCGGAGGCCAGCTGAAC
CCGGCCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACATGGACCTGGAAAAACAAAGTGA
AGAAGATGGGCTTAGGTACGAGCAAGGATTGGAGCCCCCTGTTTAAATGCAAGAAAAATGTGAAGGATTTCG
AACTGCACCTTCTGGAGAAAAATATGTCGTAAGTGTGAGCAAGAGCATGATGTCCTCTTGAGCAATG
AAGAGGATCGAAAAGTGGGAAAACCTTTTGAAGACACCAAGTATACCACTCTGATTGCAAACTAAAGTCAGATG
GAATTCCTATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGAATGTCTCCATCAATA
CAGTTACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCATTGGCCAGGCAGTACATGCAGATGCTACCCAAGG
AAAAGCAGCCAGTAGCAGGCTCAGAGGGGGCACAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG
ACCAGGACCCCTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA
AGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCCAAGGCCCAACAAATGAACA
TTCCTGGAGGGGATAGAAGACCCCGAGCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC
AATATTCCTGCTATTGCTGCAAACTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG
ATAAACTGTGGCACCCAGCTTGTCTGTCTGACGACCTGCCATGAACTCCTGGTTGACATGATTTATTTTGGGA
AGAATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCGATGTGCTGGCTGTGACGAGCTGA
TATTCAGCAATGAGTATACCCAGGCAGAAAACCAAGATTTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA
GCATTCTAGCTGGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTCAGCTGGC
ATGCATCCACAGAGTGCCTTCTGTGCTCTTGTGTCAGCAAATGCCTCATTGGGCAGAAGTTCATGCCAGTAGAAG
GGATGGTTTTCTGTTCAGTGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG
CTATCCAAAGTGGTCTGCATTTCTACTGTAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAA
GGAAACCAAGAGATTTTGTAAATTTTTTGGCCATTTTTCTTCATCAATTTTTTTCGGTCTCACTTTTAA
CTTGGTTTAAAGCATTTGATTTGTAAAACAGTAAATAATTGTATCTTTCCATAGCTTTCAAATGTGAAATCATT
TTGGAAGCTTGGATCTCATTAACTTCATGTCTCTATTCCATTTGTGCCACACACTTAAAGTTAGTGTACTGAA
TGGAAAGATGAGCATTCTAGTTCTACACTTCTTTTTTCCCCCTCATGTGTAATGAAAAGAAAACATAATTTG
CCCTAATACCAAGGCGCTACGTTTATTGCCTCGTCTATTCACTGACCTTTGTAATGATACACAGTGAATCTTT
TTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCTATGCATTTACTCTTTCCTGATTTAG
GCAGAGGTGGCATTCTTTTATTGCATTTCTCTATTTTTTAAATGTACCTACCTTCAGTATTCTCTTTGTAAGT
TGGTGAATTGCATCTGTGGCCTTGAATATTTTATTATCACATGIGGCATAACAGTATCCACACTTTTTAGTCTT
TATTTTTTTTTTTTTTATTTTGAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTACAGGTGCATGCCAC
CACACCCAGCTAATTTTTGTATTTTGTAGTAGAGACAGGTTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCTG
ACCTCAGATGATCCGCTGCCTTGGCCTCCCAAAGTGTGGGATTACAGGTGTGGGAGCCACCATGCCGTGACCA
CACACTTTTTACTTGTATAGATGATTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTGCTTTTAAATCCAAG
AACATGTATAGTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACTTGCTGCTGCTGATTTAGATAAGATT
TTTTTGCATGGTTTTTATCTTTCCTAATGGATCCTGTTTTATAATACTTCCAAGCCTGTCCATGGATATATCA
AATGTCTTCACTTGTATATTTTCATGGCTAGGTATTCTAATGTTTATCTTCCCTGTGTACTTCTACACATAGC
TATGCACTATGAAAATTAATGGAATGAATGATATGTATATTACTCAAAATAAAGTTTCTTCACTTT

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FIGURE 2390

MDLENKVKKMGLGHEQGFGAPCLKCKEKCEGFELHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL
IAKLKSDGIPMYKRNVMILTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQL
AKQLPAHDQDPSKCHELSPREVKEMEQFVKKYKSEALGVGDVKLPCEMDAQGPKQMNIPGGDRSTPAAVGAMEDK
SAEHKRTQYSCYCKLSMKEGDPAIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPR
CAGCDELIFSNEYTQAENQNWHLKHFFCCFDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV
TYNNFSWHASTECFLCSCCSKCLIGQKFMPVEGMVFCVVECKKRMS

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FIGURE 2391

GGGAGAAACGTTCTCACTCGCTCTCTGCTCGCTGCGGGCGCTCCCCGCCCTCTGCTGCCAGAACCTTGGGGATGT
GCCTAGACCCGCGCAGCACACGTCGGGGCCAACCGCGAGCAGAACAAACCTTTGGCGGGCGGCCAGGAGGCTCC
CTCCCAGCCACCGCCCCCTCCAGCGCCTTTTTTTCCCCCATACAATAACAAGATCTTCCTTCCTCAGTTCCTTT
AAAGCACAGCCCAGGGAAACCTCCTCACAGTTTTTCATCCAGCCACGGGCCAGCATGCTGGGGGCAAATACGTAAG
ACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGG
CAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAAGGAGATCGACCTGGTCAACCGCGACCCCTAAAC
ACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAACCAAGGGACACACAGTTTTGACG
GCATTTGGAAGGCCAGCTTCACCACCTTCACTGTGACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTTG
GCATCCCGATGGCACTCATCTGGGGCATTTACTTCGCCATTCTCTCTTTCCCTGCACATCTGGGCAGTTGTACCAT
GCATTAAGAGCTTCCTGATTGAGATTCACTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCGCTCTGTGACC
CACTCTTTGAAGCTGTTGGGAAAATATTAGCAATGTCCGCATCAACTTGCAGAAAGAAATATTAATGACATTTTC
AAGGATAGAAGTATACCTGATTTTTTTTTCTTTTAAATTTTCTGGTGCCAATTTCAAGTTCCAAGTTGCTAATAC
AGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAGATCACTTTCTCAGTTTTTCATAAGTATTATGT
CTCTCTGAGCTATTTTCATCTATTTTTTGGCAGTCTGAATTTTTTAAACCCATTTAAATTTTTTTCCTTACCTTTT
TATTTGCATGTGGATCAACCATCGCTTTATTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAAT
ATGAAGAACTGAGGAGGAAAAAAAAAAAAAAAAAGAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGTC
ATTTTATGTTAAGGGAAGAATTCCAGGGTATGGCCATGGAGTGTAAGTATGTGGGCAGATTTTCAGCAAACCTC
TTTTCCCACTGTTTAAAGGAGTTAGTGGATTACTGCCATTCACTTCATAATCCAGTAGGATCCAGTGATCCTTACA
AGTTAGAAAACATAATCTTCTGCCTTCTCATGATCCAACATAATGCCTTACTCTTCTTGAAATTTTAACTATGAT
ATTTTCTGTGCCTGAATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTTACATTTTCTTTTC
AAATAGGGTCTAACTCAGCAACTCGCTTTAGGTGAGCAGCCTCCCTGAAGACCAAAATTAGAATATCCATGACCT
AGTTTTCCATGCGTGTCTCTGACTCTGAGCTACAGAGTCTGGTGAAGCTCACTTCTGGGCTTCATCTGGCAACAT
CTTTATCCGTAGTGGGTATGGTTGACACTAGCCCAATGAAATGAATTAAGTGGACCAATAGGGCTGAGCTCTCT
GTGGGCTGGCAGTCCCTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTCAGCATGTCTATTAGCTT
CGTTTTATTTTCAAGAATAATCACGCTTTCCCTGAATCCAACTAATCCATCACCGGGGTGGTTTTAGTGGCTCAACA
TTGTGTTCCCATTTTCAGCTGATCAGTGGGCTCCAGGAGGGGCTGTAAATGGAGGCCATTGTGTGAGCCTATC
AGAGTTGCTGCAACCTGACCCCTGCTCAGTAAAGCACTTGCAACCGTCTGTTATGCTGTGACACATGGCCCCCTC
CCCCCTGCCAGGAGCTTTGGACCTAATCCAAGCATCCCTTTGCCAGAAAGAAGATGGGGGAGGAGGCAGTAATAA
AAAGATTGAAGTATTTTGTGGAATAAGTTCAAATTTCTTGAACCTCAAACTGAGGAATTTACCTGTAAACCTG
AGTCGTACAGAAAGCTGCCTGGTATATCCAAAAGCTTTTTATTCTCTGCTCATATTGTGATTCTGCCTTTGGG
GACTTTTCTTAAACCTTCAGTTATGATTTTTTTTTTATACACTTATTGGAACCTGCTTGATTTTTGCCTCTTCC
AGTCTTCTGACACTTTAATTACCAACCTGTTACCTACTTTGACTTTTGCATTTAAACAGACACTGGCATGGA
TATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACTGCATACTTTTAAATGTAAAGATATTT
TTATCTTTATATGAAGAAAATCACTTAGGAAATGGCTTTGTGATTCAATCTGTAACTGTGTATTCCAAGACATG
TCTGTTCTACATAGATGCTTAGTCCCTCATGCAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCT
TACTGATATATTTTACAATTTTTTATCATGCTGCTGTAAAGGTTACAAGCCTGCACAATAAAAATGTTTAAAC
GGTT

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FIGURE 2392

MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVRDPKHLNDDVVKIDFEDVIAEP
EGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSI
YVHTVCDPLFEAVGKIFS NVRINLQKEI

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FIGURE 2393

TTTGTCCGCGAAGGAAGATGGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAA
TTCATCATTTCATGCCCTCCTGGAGAATTTAATGAGGTTTCAATGATGTTTCGGTTACTGCTTAATAATGACAAT
CTTCTCAGGGAAGGAGCAGCCCATGCATTTCACAGTATAAAGTTGGACCAGTTTACTCCAGTAAAAATTGAAGGT
TATGAAGATCAGGTATTGATAACAGAACATGGCGACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATC
TGTTTTAAATTTGATCACCTTAAGGAAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAATGCAGTTGAATCA
TGGAGAACTTCAGTAGAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTCTGCACTGTGTAT
GGCAAAAAAATAGATGGACAGCAAACCATTTATGCATGCATAGAAAGCCATCAGTTCCAAGCAAAAAATTTTGG
AATGGTCGTTGGAGGTCAGAATGGAAGTTTACAATCACTCCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATT
CAGGTTTCATTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCCTAACAGTGTCT
AATGAAGTGCAAACAGCAAAAGAATTTATAAAGATTGTAGAAGCTGCAGAAAATGAATACCAGACTGCCATCAGT
GAGAATTATCAGACAATGTCGGACACTACTTTCAAAGCCTTACGTCGACAGTTGCCAGTTACACGCACTAAGATT
GATTGGAACAAGATCCTTAGCTACAAGATTGGCAAAGAGATGCAGAATGCATTAAGATGAACATTGCATGACCGGA
TCATTTTAGTGTCTTTGC

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FIGURE 2394

MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNLDQFTPVKIEGYEDQVL
ITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRTSVETALRAYVKEHYPNGVCTVYGKKIDG
QQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNEVQTA
KEFIKIVEAAENEYQTAI SENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 2395

CTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGT
GCAACCTGTTTCGCTGTACTAACTGTGCCCAGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAA
CATAGTGGAGGCCGTAGCAGTCAGGGACATTTCTGAAGCAAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTA
TGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAA
GGACCGAACACCCCCACCCAGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGC
TGAGTTCTTAAAGACTGAAGACAGGTTATTCTCTGGAGAAAAATAAAATGGAAATTGTA

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FIGURE 2396

TGGAGCTAAGCTGTTTCCAGGGTGACAGAGTGGCGACCTCGGTGGTCGATTGAGCAGGTCTGAGAATTGTTCCCA
AAGGGTTGTGCGTCACCGAGTCGTTGGCGCTGTCATGGCGGGGTGTGCTGAAGAAGACCACTGGCCTTGTGGGATT
GGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATATTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCC
TAAAAATGCAGCATATAGAAAGTATACAGAACAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGA
TGTTAAAAAATTAGAAGACCACTTCAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAACATAAA
TCTGGCAAGAAAAATGAGGGAATGGAACTATGGGAGCCATTAGTGGAAAGAGCCTCCTGCCGATCAGTGGAAATG
GCCAATATTAAATTATTAAAGTGACTTTGGTGTGTTTCATGGGAACTGATGTAATTAAATATTCTGTTATATTAAAGAG
CGTGTTCCTTATTACTGACATTTTGTAAATCAAGAAAAGTGATATAGAAAATATGTAGGAGACTGTTAAATTTGGTG
ATTATGGTAATATGGTCATGTGAATCAATTTTTGATTTATAAAGTACTCACACAAGTTGTTTCAAAGATGATATT
TCTGTGAACAGAGAGGCCATGGGAAGATTTGAAAATTATTAAGAAAAATTCCTACAGATTTTCAATGCAGAGAC
CATAATCAAAAAGTAACTTTCTTTAGTAGTATGTTCAATACATCATTAAATTTTTTAAGTTATCCTGAAGAAGG
AAAGGTCCTTAATTATTATAGTCTAAACAAATTTATAGATTACTGTTTGAAGTAAATAATACGAGTGAATATTTT
CAAAATGTGATAAAATAGCACAAAGTGGCTGGTGATAAAATTTGAAATTATGGTTAACCTCAGCTGTGATCTTATGT
ATGTAAAGTGAATTTAAATAGATAATTATAGGTTGATTACAAATCCATAGTGTCAATTTTATTTTAGTCATTAT
TGAATTATACCATTTACTCTGTTTTCTTATAGTCTTAATTTTATTATATTTTGTGTTACTGTATTATATTTGAA
AACCTTCAAATTAGAATACATTGTACAGTTAAAGAAATTGACTTGGTACTTAAAAGAAAGATTCCCATTGCATA
CAGGTTATTGGAGAAATTTTCCTTTTGTGTCATTTGTGGAAGTTAGTTTTCTGGCCCGTGGCCTTTAATTTTCTT
AATCAACCTAATTACATCAGGATAGAGGTAGAGTTTCTGTAAAAGAAGAGACATTAAGAGTTCCTGAAATTTATA
TCTGGCATAACCGATAGGCTTATATTCAAAACATCTTAGTCATACGACCATAAATTAAAAGTGGAGTCACTAAATA
GTTTGCAGTACGTTTCTAATATAAGTGTAGGTGGGTATCAAAACAAGACAAATGCTGTTTCAGGGAAAGAAGTTGG
CAAGCTTAAGGTTAAACAAAAATAAAATTACATGTGTTTTCGCCTTCCTA

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FIGURE 2397

MAGVLKKTITGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGG
QLEEVILQAEHELNLRKMRWKLWEPLVEEPPADQWKWPI

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FIGURE 2398

CCGCGTCGGTGCCCGCGCCCCCTCCCCGGGCCCCGCCATGGGCCCTACCGTGTCCGCGCTCTTTTCGCGGATCTTC
GGGAAGAAGCAGATGCGGATTCTCATGGTTGGCTTGGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAG
TTGGGGGAGATTGTCAACCACCATCCCAACCATAGGCTTCAATGTAGAAACAGTGGAATATAAGAACATCTGTTTC
ACAGTCTGGGACGTGGGAGGCCAGGACAAGATTGGGCCTCTGTGGCGGCACTACTTCCAGAACACTCAGGGCCTC
ATCTTTGTGGTGGACAGTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAACTCCAGAAGATGCTGCAGGAG
GACGAGCTGCGGGATGCAGTGCTGCTGGTATTTGCCAACAAGCAGGACATGCCCCACGCCATGCCCCGTGAGCGAG
CTGACTGACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCCAAGGC
ACAGGTCTGTACGATGGTCTGGACTGGCTGTCCCACGAGCTGTCAAAGCGCTTAACCAGCCAGGGGCAGGCCCTTG
ATGCCCCGAAGCTCCTGCGTGTCATCCCCGGGATGACCAGACTCCCGGACTCCTCAGGCAGTGCCCTTTCTCTCCA
CTTTTCCTCCCCATAGCCACAGGCCTCTGCTCCTGCTCCTGCTGCATGTTCTCTCTGTTGTTGGAGCCTGGAG
CCTTGCTCTCTGGGCACAGAGGGGTCCACTCTCCTGCCTGCTGGGACCTATGGAAGGGGCTTCCTGGCCAAGGCC
CCCTCTTCCAGAGGAGGAGCAGGGATCTGGGTTTCCTTTTTTTTTTCTGTTTTGGGTGTACTCTAGGGGCCAGGT
TGGGAGGGGGAAGGTGAGGGCTTCGGGTGGTGCTATAATGTGGCACTGGATCTTGAGTAATAAATTTGCTGTGGT
TTG

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FIGURE 2399

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVQESADELQMLQEDEL RDAVLLVFANKQDMPNAMPVSELTDKLG LQHLRS
RTWYVQATCATQGTGLYDGLDWLSHEL SKR

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FIGURE 2400

GCAGTAGAACGTGTGGCGGCGGCGGAGATCGCGTCTCTTTTCGCTCCGTGTCCCGCTGCTGCTCCTGTGAGCGCC
CGGCGAGTCCGTCCCGTCCACCGTCCGCAGCTGGTAGCCAGCCTGCCCCCTCGCCTCGACTCCCTTTACCAACAC
CGACACCCACATTGACACCTCCAGTCCGGCCAGCCGCTCCACTCGTTGCCTTTGCATCTCCACACATGGCGTCCT
CCGCGCAGAGCGGCGGCTCCTCCGGGGGACCCGCGGTCCCCACCGTGCAGCGGGGCATCATCAAGATGGTCCTCT
CAGGGTGCGCCATCATTGTCCGAGGTACAGCCTCGTGGTGGGCCTCCTCTGAGCGGCAGATCAACCTCAGCAACA
TTCGTGCTGGAAATCTTGCTCGCCGGGCAGCCGCCACACAACCTGATGCAAAGGATACCCCTGATGAGCCCTGGG
CATTTCAGCTCGAGAGTTCTTCGAAAGAAGCTGATTGGGAAGGAAGTCTGTTTCACGATAGAAAACAAGACTC
CCCAGGGGCGAGAGTATGGCATGATCTACCTTGGAAGGATACCAATGGGGAAAACATTGCAGAATCACTGGTTG
CAGAGGGCTTAGCCACCCGGAGAGAAGGCATGAGAGCTAATAATCCTGAGCAGAACCGGCTTTCAGAATGTGAAG
AACAAGCAAAGGCAGCCAAGAAAGGGATGTGGAGTGAGGGGAACGGTTCACATACTATCCGGGATCTCAAGTATA
CCATTGAAAACCCAAGGCACCTTTGTGGACTCACACCACCAGAAGCCTGTTAATGCTATCATCGAGCATGTGCGGG
ACGGCAGTGTGGTCAGGGCCCTGCTCCTCCAGATTACTACCTGGTTACAGTCATGCTGTGAGGCATCAAGTGCC
CAACTTTTCGACGGGAAGCAGATGGCAGTGAACTCCAGAGCCTTTTGCTGCAGAAGCCAAATTTTTCAGTGAAGT
CGCGACTGCTTCAGAGAGATGTTGAGATCATTCTGGAGAGCTGCCACAACCAGAACATTCTGGGTACCATCCTTC
ATCCAAATGGCAACATCACAGAGCTCCTCCTGAAGGAAGGTTTCGCACGCTGTGTGGACTGGTCGATTGCAGTTT
ACACCCGGGGCGCAGAAAAGCTGAGGGCGGCAGAGAGGTTTGCCAAAGAGCGCAGGCTGAGAATATGGAGAGACT
ATGTGGCTCCCAAGCTAATTTGGACCAAAAGGACAAGCAGTTTGTGCAAGGTGATGCAGGTTCTGAATGCTG
ATGCCATTGTTGTGAAGCTGAACTCAGGCGATTACAAGACGATTACCTGTCCAGCATCCGACCACCGAGGCTGG
AGGGGGAGAACACCCAGGATAAGAACAAAGAACTGCGTCCCCTGTATGACATTCTTACATGTTTGAGGCCCGGG
AATTTCTTCGAAAAAGCTTATTGGGAAGAAGGTCAATGTGACGGTGGACTACATTAGACCAGCCAGCCAGCCA
CAGAGACAGTGCCTGCCTTTTCAGAGCGTACCTGTGCCACTGTACCATTGGAGGAATAAACATTGCTGAGGCTC
TTGTGAGCAAAGGTCTAGCCACAGTGATCAGATACCGGCAGGATGATGACCAGAGATCATCACTACGATGAAC
TGCTTGCTGCAGAGGCCAGAGCTATTAAGAAATGGCAAAGGATTGCATAGCAAGAAGGAAGTGCCTATCCACCGTG
TTGCAGATATATCTGGGGATACCCAAAAAGCAAAGCAGTTCCTGCCTTTCTTCAGCGGGCAGGTCGTTCTGAAG
CTGTGGTGGAAATACGTCTTCAGTGGTTCTCGTCTCAAACCTCTATTTGCCAAAGGAACTTGCCCTTATCACCTTCT
TGCTTGACAGGCATTGAATGCCCCAGAGGAGCCCGAAACCTCCCAGGCTTGGTGCAGGAAGGAGAGCCCTTCAGCG
AGGAAGCTACACTTTTCACCAAGGAAGTGGTGTGCAGCGAGAGGTGGAGGTGGAGGTGGAGAGCATGGACAAGG
CCGGCAACTTTATCGGCTGGCTGCACATCGACGGTGCCAACCTGTCCGTCTGCTGGTGGAGCACGCGCTCTCCA
AGGTCCACTTCACCGCCGAACGCAGCTCCTACTACAAGTCCCTGCTGTCTGCCGAGGAGGCCGAAAGCAGAAGA
AAGAGAAGGTCTGGGCCCCACTATGAGGAGCAGCCGTGGAGGAGGTGATGCCAGTGCTGGAGGAGAAGGAGCGAT
CTGCTAGCTACAAGCCCGTGTGTTGACTGAGATCACTGATGACCTGCACTTCTACGTGCAGGATGTGGAGACCG
GCACCCAGTTGGAGAAGCTGATGGAGAACATGCGCAATGACATTGCCAGTCACCCCTGTAGAGGGCTCCTATG
CCCCCGCAGGGGAGAGTTCTGCATTGCCAAATTTGTAGATGGAGAATGGTACCCTGCCCGAGGTAGAGAAAGTCG
AGTCTCCTGCCAAAATACATGTCTTCTACATTGACTACGGCAACAGAGAGGTCTGCCATCCACCCGCTGGGTA
CCCTATCACCTGCCTTTCAGCACTCGGGTGTGCGAGCTCAAGCCACGGAGTATGCCTTCGCCTTCATCCAGGTGC
CCCAAGATGATGATGCCCGCACGGACGCCGTGGACAGCGTAGTTCGGGATATCCAGAACACTCAGTGCCTGCTCA
ACGTGGAACACCTGAGTGCCGGCTGCCCCCATGTACCCCTGCAGTTTGCAGATTCCAAGGGCGATGTGGGGCTGG
GCTTGGTGAAGGAAGGGCTGGTCTATGGTGGAGGTGCGCAAGGAGAAACAGTTCCAGAAAGTGATCACAGAATACC
TGAATGCCCAAGAGTCAGCCAAGAGCGCCAGGCTGAACCTGTGGCGCTATGGAGACTTTCAGAGCTGATGATGCAG
ACTGCCCTCGTCCCAGCTCTCTGTCCAACCTGTTGATTATGTGATTTTCTGATACGTCCATTCTCAAATGCCAGT
GTGTTACATCTTCGCTCTGGCCAGCCCATTCGTGATTTAAAGCTTTTGAGGCCCAATAAAATAGTACGTGCTGT
C

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FIGURE 2401

MASSAQSGGSSGGPAVPTVQRGIIKMVLSGCAIIVRGQPRGGPPPERQINLSNIRAGNLARRAAATQPDAKDTPD
EPWAFPPAREFLRKKLIGKEVCFTIENKTPQGREYGMIIYLGKDTNGENIAESLVAEGLATRREGMRANNPEQNRLS
ECEEQAKAAKGMWSENGSHTIRDLYTIENPRHFVDSHHQKPVNAIIEHVRDGSVVRALLLPDYLLVTVMLSG
IKCPTFRREADGSETPEPFAAEAKFFTESRLLQRDVQIILESCHNQNILGTILHPNGNITELLKEGFARCV DWS
IAVYTRGAEKLRAAERFAKERRLRIRWDYVAPTANLDQKDKQFVAKVMQVLNADAIVVKLNSGDYKTIHLSSIRP
PRLEGENTQDKNKKLRPLYDIPYMFAREFLRKKLIGKKVNVTVDYIRPASPATETVPASFERTCATVTIGGINI
AEALVSKGLATVIRYRQDDQDQSSHYDELLAAEARAIKNGKGLHSKKEVPIHRVADISGDTQKAKQFLPFLQ RAG
RSEAVVEYVFSGSRLKLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVES
MDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEE
KERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPEGSYAPRRGEFCIAKFVDGEWYRARV
EKVESPAKIHVFYIDYGNREVL PSTRLGTLSPAFSTRVLPAQATEYAFAFIQVPQDDDARTDAVDSVVRDIQNTQ
CLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYLNQESAKSARLNLWRYGDFRA
DDADCPRPSSLSNC

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FIGURE 2402

TCGGAAGGGGCCAGGAGACACTGGAAGGTCCGGACGGCAGGGAAGGGGACGGGGTTCTTTCCAGTCCCACCCGTG
TAGGGACACCTCTCCCCCTCATCCCCCGATGTACCCTCGCTGAATCTGGGATGGGAGAGACGAACCGAGTCTAGG
CATCTGCGTAGCAGCGCCGGGAGAGCGGGGAGCCCAGGGCGGAGCCAGTCCGACTCCCGGATTCCCTGCCCCG
CCCCCGGCACGAGGCCCGCCCGGGCGGCCCGCCCTCCTCGGGACTCGACCGGGCTGCGCTCACTGCCCAGCC
GGGGCCCCGGGAGCCTCCAGGCTCCCGCCCCGCTGAGCTGCGGCCTCCGCATGGAGGGGCCACTCACTCCACCA
CCGCTGCAGGGAGGCGGAGCCCGCGCTGTTCCGGAGCCCGGAGCCCGGAACACCCGGGACACGAGACGGCGGCG
CAGCGGTACAGCGCCCGACTGCTGCAGGCCGGCTACGAGCCCGAGAGCCCTAGATTGGACCTCGCTACACACCCG
ACGACACCCCGTTTCAAGAACTATCTTCAGTGGTCTTACTGGCAGGTGTTGGTGTCCAGATGGATCGCCTTCGAGG
GCTAGCATGGCGGACTACCTGATCAGCGGCGGCACCGGCTACGTGCCGAGGATGGGCTACCGCGCAGCAGCTC
TTCGCCAGCGCCGACGGCCTCACCTACAACGACTTCCTGATTCTCCAGGATTCATAGACTTCATAGCTGATGAG
GTGGACCTGACCTCAGCCCTGACCCGGAAGATCACGCTGAAGACGCCACTGATCTCCTCCCCCATGGACACTGTG
ACAGAGGCTGACATGGCCATTGCCATGGCTCTGATGGGAGGTATTGGTTTCATTACCCACAACCTGCACCCAGAG
TTCCAGGCCAACGAGGTGCGGAAGGTCAAGAAGTTTGAACAGGGGTTTCATCACGGACCCTGTGGTGTGAGCCCC
TCGCACACTGTGGGCGATGTGCTGGAGGCCAAGATGCGGCATGGCTTCTCTGGCATCCCCATCACTGAGACGGGC
ACCATGGGCAGCAAGCTGGTGGGCATCGTCACCTCCCGAGACATCGACTTCTTGCTGAGAAGGACCACACCACC
CTCCTCAGTGAGGTGATGACGCCAAGGATTGAACGGTGGTGGCTCCAGCAGGTGTGACGTTGAAAGAGGCAAAT
GAGATCCTGCAGCGTAGCAAGAAAGGGAAGCTGCCTATCGTCAATGATTGCGATGAGCTGGTGGCCATCATCGCC
CGCACCGACCTGAAGAAGAACCAGACTACCTCTGGCCTCCAAGGATTCACAGAAGCAGCTGCTCTGTGGGGCA
GCTGTGGGCACCCGTGAGGATGACAAATACCGTCTGGACCTGCTACCCAGGCGGGCGTCGACGTATAGTCTTG
GACTCGTCCCAAGGGAATTTCGGTGTATCAGATCGCCATGGTGCATTACATCAAACAGAAGTACCCCCACCTCCAG
GTGATTGGGGGGAACGTGGTGACAGCAGCCCAGGCCAAGAACCTGATTGATGCTGGTGTGGACGGGCTGCGCGTG
GGCATGGGCTGCGGCTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGGTGGGCCCCAGGGCACTGCTGTGTAC
AAGGTGGCTGAGTATGCCCCGGCGCTTTGGTGTGCCCATCATAGCCGATGGCGGCATCCAGACCGTGGGACACGTG
GTCAAGGCCCTGGCCCTTGGAGCCTCCACAGTGATGATGGGCTCCCTGCTGGCCGCCACTACGGAGGCCCTGGC
GAGTACTTCTTCTCAGACGGGTGCGGCTCAAGAAGTACCGGGGCATGGGCTCACTGGATGCCATGGAGAAGAGC
AGCAGCAGCCAGAAACGATACTTCAGCGAGGGGGATAAAGTGAAGATCGCGCAGGGTGTCTCGGGCTCCATCCAG
GACAAAGGATCCATTCAAGATTCTGTGCCCTACCTCATAGCAGGCATCCAACACGGCTGCCAGGATATCGGGGCC
CGCAGCCTGTCTGTCTTCGGTCCATGATGTACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTGCGGCCAG
ATTGAGGGTGGTGTCCATGGCCTGCACTCTTACGAAAAGCGGCTGTACTGAGGACAGCGGTGGAGGCCGAGGTGG
TGGAGGGGATGCACCCAGTGTCCACTTTTGGGCACAGCCTCCCTCCATAACTGAGTGGTCCACAGATTTCACCT
ACGGGTTCTCCAGCTCCTTTCCAGGCAGAGAGGAGGGGAGGTCTGAGGGGACTGCTGCCCTCACTCGGCATCC
CCTGCAGAGTCAGGACTGCTCCCGGGGCCAGGCTGCCCTGGGAGCCCCCTCCGAGCCAGCCAGCCAGGCTCTC
AGGCCCTGCGCCTGCCTCAGGTCTTTCTTGCTGCAGCCTGCTCCAGCCTGGCCCCACCCAGGGGCGAGCGGCC
CCTCCTGGCTTCTCCTGTAGGGCACCTCCCTGCCCTAGCCTCCAGGAAATGGTGTCTCCTGGCCCTGCCTCT
GGCCCTTCCCGGGCCGCTGCCCTCAGCCATGTGGCACTTCTGAGCTCCTGACCTAGGCCAAGGGGAGGTCTCTG
CCCCCTTCCCGGGCCCTGGGCTACCCTTGGGTCTGCTCCTCAGGCCGCTCCCTGTCCCTGGCCATGGGTAGGA
GACTGCCCTGGTTCATGGCCGCTGCCTGTCTCCTGACTCACCACCGTCCCGAGGTGAACCATTCCTCCCTTCT
CCTCAGCTGCAGTCGAAGGCTTTAACTTTGCACACTTGGGATCACAGTTGCGTCATTGTGTATTAAATACTTGA
ATAAATCAAGCAGGT

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FIGURE 2403

TTTCCAGCCCCAGCCCCGGACCCCTGCAGCCGCAGAGATGTTGACGCCTAAGAAGAACCGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGATGGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCAGAGCTGGCAGACAA
GAATGTGCCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACACTTTGC
CTGGAGACATTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGA
GATTGTGCCTGCCACCCTACCCCGTAGCCGTCCAGAGACTGGCAGACCTTGGCCTAAAGGTCTGTATGTGAGGAG
TGCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGG
ATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAAACCTGGAGAGGATTCTTTTGCATTGAATAAACTTACAGCCA
AAAAA

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FIGURE 2404

TGGGATTACAGGTAAGTGCCACCACACCCAGCTGATTTTTGTGTTTTTTGTAGAGACGAGGTTTCGCCATGTTTC
CCAGACTGTTCTCAAACCTCTGAGCTCAAAGCAGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTG
TGAGCCACCTTGCTCATTCTAGTTTAACTTTGGAGTGGTTTGTGTCTCCTGATTGGACTCCTGCAAATACAGAA
TTGATGCTAGGAAGGGTACCAGGAGATAGACGCACACAGATGGGATTTGGGAATAGGTTTGGTTATCCAAGGAGC
AGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCCAGTAAGTGACCTCAAATTAAGTCTAGGCTA
CCACATACTGTTGATTGTGATGAAATGCCAGTTGAAGCACCTGTCCTGCGAGCTTAGGGGTGCTACAAGTTGACC
ACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACTTGAGCAGCGGTCTCCA
ACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACCTCTGAATCCAGGAAGAGAGACTGACTGAGCA
ACATGTTATTACAGGTGGGACCATCCAGTTGCAAGGAAAACAAGCTTAAGACGCCCCACTGATTCTACATTATGCTCC
TACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATG
GCCTATTTAGGCCCATACCTACGTCACGGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGG
CACAGCTCCATCGTTACATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTT
CTCAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGC
CCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCC
CAGCATCTGCCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCAGCAGCTTCTACACACCCAGCTCCTGC
CACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCCCAACTTTTGTCTCATGGCAAC
CTTCCCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCCAGGGCCTCTCTACATGCAGCTTATGCC
TCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCAGGACGTCATCTCCGGGCCCAAACTTACTCAAGTCAGACT
CTGTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTTTCCAGGCCCAG
CTCCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTACGTCATGGGGGCTTCTCCAGGCCCACCCTCTCCTCTT
GGCTGGGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCCAGTTCTGTCCAGCTCATGGCGGCC
AATGTAGGCCCAAACTTCCTCAAGTCAAACCTCTCCAGGCCCACCCTCTGCTTCCCAGTGGCATGAACAGGCCCA
GCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCTCCAGGGGCTTTTCCAGGCCCAGCTCTTGCTT
CATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCATAGCTCCTCCCTCACAGTG
GCCATTTAGGCCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAAGC
CCAAAATTCCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCAC
AGTGGACCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTCCGGCAGCCTCTC
CAGGCCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGCCAGC

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FIGURE 2405

MLLPPGSLSRPRTFSNQPLQTKLMTHNGLFRPIPYVTAVSADEPTAPQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSRPASASLWTPQAKLPTFQQLLHTQ
LLPPSGLFRPSSCFTRAFPGPFTFVSWQPSLARFLPVSQQPRQAQGLSTCSLCLTVASPGPTPVEGRHLRAQNLLK
SDSVVPTAASWWPMKAQNLLKLTFFGPAPASCQRLQAQPLRHGGFSRPTSSSWLGLQAQLLPHNSLFWPSSCPAH
GGQCRPKTSSSQTLQAHLLPSGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPQAKFLPACQQPQQA

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FIGURE 2406

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
AGACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATGGAAATA
AAGTGCCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTACGTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCCTCGACAAGGCCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2407A

AGCCCAAACCGCGGCCCTAGCCCCGGCCGACCCCCAGCCCGCGCCAGCATGATGAACAACAGCGGCTACTCAGA
CGCCGGCCTCGGCCTGGGCGATGAGACAGACGAGATGCCGTCCACGGAGAAGGACCTGGCGGAGGACGCGCCGTG
GAAGAAGATCCAGCAGAACACATTACGCGCTGGTGCAATGAGCACCTCAAGTGCCTGGGCAAGCGCCTGACCGA
CCTGCAGCGCAGCTCAGCGACGGGCTCCGGCTCATCGCGTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCG
CAAGTTCCATCCGCGCCCCAACTTCCGCCAAATGAAGCTGGAGAACGTGTCCGTGGCCCTCGAGTTCCTCGAGCG
CGAGCACATCAAGCTCGTGTCCATAGACAGCAAGGCCATCGTGGATGGGAACCTGAAGCTGATCCTGGGCCGTGAT
CTGGACGTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGAGGATGAAGATGATGAGGATGCCCGCAAACA
GACGCCAAAGCAGCGGCTGCTTGGCTGGATCCAGAACAAGGTGCCCCAGCTGCCCATCACCAACTTCAACCGTGA
CTGGCAGGACGGCAAAGCTCTGGGCGCCCTGGTGGACAACCTGCGCCCCCGGTCTCTGCCCCGACTGGGAGGCCTG
GGACCCCAACAGCCCGTGGAGAAGCGCCGGGAGGCCATGCAGCAGGCCGACGACTGGCTTGGGGTGCCCCAGGT
CATTGCCCTGAGGAGATTGTGGACCCCAACGTGGATGAGCAATTCTGTTATGACCTACCTGTCCAGTTCGCCAA
GGCCAAGCTCAAACCTGGTGCCCTGTTCGATCCAAGCAGCTGAACCCCAAGAAAGCCATCGCCTATGGGCCTGG
CATCGAGCCACAGGGCAACACCGTGTGCAGCCTGCCCACTTCACCGTGCAGACGGTGGACGCGGGCGTGGGCGA
GGTGTCTGGTCTACATCGAGGACCTGAAGGCCACACCGAGGAGGCTAAGGTGGTTCCCAACAATGACAAGGATCG
CACCTATGTGTCTCTCTATGTGCCCAAGGTGCGTGGGTTACACAAGGTGACCGTGTCTTTGCTGGCCAGAACAT
TGAACGCAGTCCCTTTGAGGTGAACGTGGGCATGGCCCTGGGAGATGCCAACAAGGTGTAGCCCGTGGCCCTGG
CCTGGAACCTGTGGGCAATGTGGCCAACAAACCCACCTACTTTGACATCTACACTGCGGGGGCGGGCACTGGCGA
TGTTGCTGTGGTGATCGTGGACCACAGGGCCGGCGGGACACAGTGGAGGTGGCCCTGGAGGACAAGGGTGACAG
CACGTTCCGTGTCACATACAGACCTGCCATGGAGGGGCCACATACCGTGCATGTGGCCTTTGCGGGTGCCCCAT
CACCCGCAGTCCCTTCCCTGTCCATGTGTGCGGAAGCCTGTAACCCCAACGCCTGCCGCGCCTCTGGGCGAGGCCT
GCAGCCCAAGGGTGTTGCGGTGAAAGAGGTGGCTGACTTCAAGGTGTTTACCAAGGGTGCCGGCAGCGGGGAGCT
CAAGGTACCGGTCAAGGGGCCAAAGGGCACAGAGGAGCCAGTGAAGGTGCGGGAGGCTGGGGATGGTGTGTTTGA
GTGCGAGTACTACCCGGTGGTGCCTGGGAAGTATGTGGTGACCATCACGTGGGGCGGCTACGCCATCCCTCGCAG
CCCCTTTGAGGTACAGGTGAGCCAGAGGCAGGAGTGCAAAAGGTCCGGGCCTGGGGTCTGGTTTGGAGACTGG
CCAGGTGGGCAAGTCAGCCGATTTTGTGGTGGAAAGCCATTGGCACCGAGGTGGGGACACTGGGCTTCTCCATCGA
GGGGCCCTCACAAGCCAAGATCGAATGTGACGACAAGGGGGATGGCTCCTGCGATGTGCGGTACTGGCCACGGA
GCCTGGGGAGTACGCTGTGCACGTCTGTGTGACGATGAGGACATCCGAGACTCACCTTCATTGCCACATCCT
GCCCCCCCCACCTGACTGCTTCCAGATAAGGTGAAGGCCTTTGGGCCTGGCCTGGAGCCTACCGGCTGCATCGT
GGACAAGCCCGCTGAGTTACCAATTGATGCTCGTGCAGCTGGCAAGGGAGACCTGAAGCTCTATGCCCAGGACGC
CGACGGCTGTCCCATCGACATCAAGGTGATCCCCAACGGCGACGGCACCTTCCGCTGTCTCTACGTGCCACCAA
GCCCATTAAAGCACACCATCATCATCTCCTGGGGAGGCGTAAACGTGCCCAAGAGCCCCTTCCGGGTGAACGTGGG
CGAGGGCAGCCACCCGAGCGGGTAAAGGTGTACGGCCCCGAGTGGAGAAACAGGCCTCAAGGCCAATGAGCC
CACCTACTTCACGGTGGACTGCAGCGAGGCGGGGCAAGGCGACGTGAGCATCGGCATCAAGTGCGCCCCAGGCGT
GGTGGGCCCTGCAGAGGCTGACATTGACTTCGACATCATCAAGAATGACAACGACACCTTCACCGTCAAGTACAC
GCCACCAGGGGCGGGCCGCTACACCATCATGGTGTGTTTGCCAACCAGGAGATCCCCGCCAGCCCTTCCACAT
CAAGGTGGACCCATCCACGATGCCAGCAAAGTCAAGGCCGAGGGCCCTGGGCTGAATCGCACAGGTGTGGAAGT
CGGGAAGCCCACCCACTTCACGGTGTGACCAAGGGAGCCGGCAAGGCCAAGCTGGATGTGCAGTTTGCAGGGAC
AGCCAAGGGCGAGGTTGTGCGGGACTTTGAGATCATAGACAACCATGACTACTCTTACACTGTCAAGTACACCGC
TGTCCAGCAGGGCAACATGGCAGTGACAGTGACTTATGGCGGGGACCCTGTCCCAAGAGCCCCTTTGTGGTGAA
TGTGGCACCCCCGCTGGACCTCAGCAAAATCAAAGTTCAGGGCCTTAATAGCAAGGTGGCTGTGGGACAGGAACA
AGCATTCTCTGTGAACACACGAGGGGCTGGCGGTGAGGGCCAAGTGGATGTGCGGATGACTTCGCCCTCTCGCCG
GCCCATCCCTGCAAGCTGGAGCCAGGCGGTGGAGCGGAAGCCCAGGCTGTGCGCTACATGCCCCGGAGGAGGG
GCCCTACAAGGTGGATATCACCTACGATGGTCACCCGCTGCTGGCAGCCCGTTTGTGTGGAGGGTGTCTGCC
CCCTGATCCCTCCAAGGTCTGTGCTTATGGCCCGGGTCTCAAGGTGGACTGGTAGGCACCCCCGCGCCATTCTC
CATCGACACCAAGGGGGCTGGCACAGGTGGCCTGGGGCTGACCGTAGAGGGCCCTGCGAGGCCAAGATCGAGTG
CCAGGACAATGGTGATGGCTCATGTGTGTGCTAGCTACCTGCCACGGAGCCTGGCGAGTACACCATCAACATCCT
GTTTGCTGAGGCCACATCCCTGGCTCGCCCTTCAAAGCCACCATTCGGCCTGTGTTTGACCCGAGCAAGGTGCG
GGCCAGTGGACCGGCCTGGAGCGCGGCAAGGTGCGTGAGGCAGCCACCTTCACTGTGACTGCTCAGAGGCAGG

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FIGURE 2407B

CGAGGCGGAGCTGACCATTGAGATCCTGTGCGGATGCCGGGGTCAAGGCCGAGGTGCTGATCCACAACAACGCGGA
TGGCACCTACCACATCACCTACAGCCCTGCCTTCCCTGGCACCTACACCATTACCATCAAGTATGGCGGGCATCC
CGTGCCCAAATTTCCCAACCCGTGTCCATGTGACGCTGCGGTCGATACCAGTGGCGTCAAGGTCTCAGGGCCTGG
TGTTGAGCCACACGGTGTCTGCGGGAGGTGACCACTGAGTTCACTGTGGATGCAAGATCCCTAACAGCCACAGG
CGGCAACCACGTGACGGCTCGTGTGCTCAACCCCTCGGGGGCCAAGACAGACACCTATGTGACAGACAATGGGGA
CGGCACCTACCGAGTGCAGTACACCGCTACGAGGAGGGCGTGCATCTGGTGGAGGTCTGTATGATGAGGTGCG
TGTGCCCCAAGAGCCCTTCCGAGTGGCGGTGACCGAGGGCTGTGATCCCACCCGCGTCCGAGCCTTCCGGCCAGG
CCTGGAGGGTGGCTTGGTCAACAAGGCCAACCGATTCACTGTGGAGACCAGGGGAGCGGGCACCGGGGCCCTTGG
CCTAGCCATCGAGGGTCCCTCGGAAGCCAAGATGTCTGCAAGGACAACAAGGATGGTAGCTGCACCGTGGAGTA
CATCCCCCTTCACTCTGGAGACTATGACGTCAACATCACCTTCCGGGGGGCGGCCATCCCAGGGAGCCCCGTTCGG
CGTGCCAGTGAAGGATGTGGTGGACCTGGGAAGGTGAAGTGCTCAGGGCCAGGGCTGGGGGCTGGTGTGAGGGC
CCGGGTTCTCAGACCTTACAGTGGATTGCAGTCAAGCTGGCCGGGCGCCCCCTGCAGGTGGCTGTGCTGGGCCC
CACAGGTGTGGCCGAGCCTGTGGAGGTGCGGGACAATGGAGATGGCACCCACACTGTCCACTACACCCAGCCAC
TGACGGGGCCTACACGGTAGCCGTCAAGTATGCTGACCAGGAGGTGCCACGCAGCCCCTTCAAGATCAAGGTCTCT
CCCAGCTCATGATGCCAGCAAGGTGCGGGCCAGCGGGCCAGGCCTCAACGCCTCTGGCATCCCTGCCAGCCTGCC
TGTGGAGTTACCATCGACGCACGGGACGCGGGCGAGGGGTGCTCACTGTCCAGATCTTGGACCCCGAGGGTAA
GCCCCAAGAAGGCCAACATCCGGGACAATGGGGATGGCACGTACACTGTGCTCTACCTGCCGGACATGAGTGGCCG
GTACACCATCACCATCAAGTATGGCGGTGATGAGATCCCTACTCGCCCTTCCGCATCCATGCTCTGCCACTGG
GGATGCCAGCAAGTGCCCTCGTACAGTGTCCATTGGAGGCCATGGCCTGGGTGCCTGCCTGGGCCCTCGAATCCA
GATTGGGCAGGAGACGGTGATCACGGTGGATGCCAAGGCAGCCGGTGAGGGGAAGGTGACATGCACGGTGTCCAC
GCCGGATGGGGCAGAGCTCGATGTGGATGTGGTTGAGAACCATGACGGTACCTTTGACATCTACTACACAGCGCC
CGAGCCGGGCAAGTACGTACATACCATCCGCTTCCGGGGTGAGCACATCCCCAACAGCCCCCTTCCAGTGTCTGGC
GTGTGACCCCTTCCGCACGAGGAGGAGCCCTCTGAAGTGCCACAGCTGCCCCAGCCCTACGCTCTCCCGGCC
CGGCGCCCGCCCCACACTGGGCCACAGAGGAGCCAGTGGTGCCTGTGGAGCCAATGGAGTCCATGCTGAGGCC
CTTCAACCTGGTCATCCCCCTTCGCGGTGCAGAAAGGGGAGCTCACAGGAGAGGTGCGGATGCCCTCGGGGAAGAC
GGCACGGCCCAACATCACCGACAACAAGGACGGCACCATCACGGTGAGGTATGCACCCACTGAGAAAGGCCTGCA
CCAGATGGGGATCAAGTATGACGGCAACCACATCCCTGGGAGCCCCCTTACAGTTCTATGTGGATGCCATCAACAG
CCGCCATGTCAGTGCCFATGGGCCAGGCCTGAGCCATGGCATGGTCAACAAGCCAGCCACCTTCACTATTGTAC
CAAAGATGCTGGAGAAGGGGGTCTGTCACTGGCCGTGGAGGGCCCATCCAAGGCAGAGATCACTGTGAAGGACAA
CAAGGATGGCACCTGCACCGTGTCTATCTGCCGACTGCCCTGGAGACTACAGCATCATCGTGCCTTCGATGA
CAAGCACATCCGGGGGAGCCCCCTTACAGCCAAGATCACAGGTGATGACTCCATGAGGACCTCACAGCTGAATGT
GGGCACCTCCACGGACGTGCTCACTGAAGTACCCGAGAGTGATCTGAGCCAGCTGACCGCCAGCATCCGTGCCCC
CTCGGGCAACGAGGAGCCCTGCCTGCTGAAGCGCCTGCCAACCCGGCACATTGGGATCTCCTTACCCCCAAGGA
GGTCCGGGAGCACGTGGTGAGCGTGCGCAAGAGTGGCAAGCATGTACCAACAGCCCCCTTCAAGATCCTGGTGGG
GCCATCTGAGATCGGGGACGCCAGCAAGGTGCGGGTCTGGGGCAAGGGGCTTCCGAGGGACACACATTCAGGT
GGCAGAGTTTATCGTGGACACTCGCAATGCAGGTTATGGGGCTTGGGGCTGAGTATTGAAGGCCAAGCAAGGT
GGACATCAACTGTGAGGACATGGAGGACGGGACATGCAAGTCACCTACTGCCCCACCGAGCCCGGCACCTACAT
CATCAACATCAAGTTTGCTGACAAGCACGTGCCTGGAAGCCCCCTTCACTGTGAAGGTGACCGGCAGGGCCGCAT
GAAGGAGAGCATACCCGGCGGAGACAGGCACCTTCCATCGCCACCATCGGCAGCACCTGTGACCTCAACCTCAA
GATCCCAGGAACTGGTTCCAGATGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTACACAGCAGCCACAC
CTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGGGAGACAAGCGCGAGGTGCGGGTGGAGGA
GTCCACCCAGGTGCGCGGGGACCCCTTCCCTGCTGTGTTTGGGGACTTCTGGGCGGGGAGCGCTGGGATCCTT
CGGCAGCATACCCGGCAGCAGGAGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCGCCCATCGGG
CAAGGTGGAAGCCGAGAGATCGTCGAGGGCGAGGACAGCGCTACAGCGTGCCTTTGTGCCCAAGGAAATGGG
GCCCCATACGGTCTGTGTAAGTACCGTGCCAGCACGTGCCCGCAGCCCTTTCAGTTCACTGTGGGGCCGCT
GGGTGAAGGTGGTGGCCACAAGGTGCGGGCCGAGGCACAGGGCTGGAGCGAGGTGTGGCCGGCTGCCAGCCGA
GTTACAGCATCTGACCCGGGAGGTGGCGCTGGGGGCTGTCCATTGCTGTGGAGGGTCTTAGCAAAGCGGAGAT
TGCATTTGAGGATCGCAAAGATGGCTCCTGCGCGTCTCCTATGTCTGCTCCAGGAACCGGTGACTATGAGGTCTC

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FIGURE 2407C

CATCAAGTTCAATGATGAGCACATCCCAGACAGCCCCCTTTGTGGTGCCTGTGGCCTCCCTCTCGGATGACGCTCG
CCGTCTCACTGTCAACCAGCCTCCAGGAGACGGGGCTCAAGGTGAACCAGCCAGCGTCCCTTTGCCGTGCAGCTGAA
CGGTGCCCGGGCGTGATTGATGCCCGGTGCACACACCCTCGGGGGCTGTGGAGGAGTGCTACGTCTCTGAGCT
GGACAGTGACAAGCACACCATCCGCTTCATCCCCACGAGAATGGCGTCCACTCCATCGATGTCAAGTTCAACGG
TGCCACATCCCTGGAAGTCCCTTCAAGATCCCGGTGGGGAGCAGAGCCAGGCTGGGGACCCAGGCTTGGTGTG
AGCCTACGGTCTCGGGCTCGAGGGAGGCACTACCGGTGTGTATCAGAGTTTCATCGTGAACACCCTGAATGCCGG
CTCGGGGGCCTTGTCTGTCAACATTGATGGCCCCCTCAAGGTGCAGCTGGACTGTCTGGGAGTGTCTTGAGGGCCA
TGTTGGTCACTTATACTCCCATGGCCCCCTGGCAACTACCTCATTGCCATCAAGTACGGTGGCCCCCAGCACATCGT
GGGCAGCCCCCTTCAAGGCCAAGGTCACTGGTCCGAGGCTGTCCGGAGGCCACAGCCTTCACGAAACATCCACGGT
TCTGGTGGAGACTGTGACCAAGTCCCTCCTCAAGCCGGGGCTCCAGCTACAGCTCCATCCCCAAGTTCTCCTCAGA
TGCCAGCAAGGTGGTGAATCGGGGCCCTGGGCTGTCCAGGCCTTCGTGGGCCAGAAGAACTCCTTCACCGTGGA
CTGCAGCAAAGCAGGCACCAACATGATGATGGTGGGCGTGCACGGCCCCAAGACCCCCCTGTGAGGAGGTGTACGT
GAAGCACATGGGGAACCGGGTGTACAATGTCACCTACACTGTCAAGGAGAAAGGGGACTACATCCTCATTGTCAA
GTGGGGTGACGAAAGTGTCCCTGGAAGCCCCCTTCAAAGTCAAGGTCCCTTGAATCCCCAAAAGTGCCTCCCCAGCC
TCAGCCCCCACCTCCAGCCACACACACATTACACACACACACACACACAAATGTGCCACACCCAGACACGC
ACAGAATCAGACACTACAAACACCTGCCTTGGGGGTGAAGTGAAGGCCAGCCTCCCCACCCACCGCGCCCCAG
GGGTGGAGGACCTTGTCTGTGTCAAGACAGTGTCCCTCCCTGGGAATGTGACATGAGGGCCGACTGGGGCCAGG
CTCAGGGGCAGAGGCTGGGACACAAGGGGCTGGCGAGGGCTGCGAGGCCAGGAAGCCCTGAGTTTCTGGCGGGG
CTGAGCAGTGGGGGAGCATTGTGTTGTGGGTGTCTGTGTGTGAGGTCACCCTCAAAGTGCACCGCCGGCCAGATA
CCCTCCTGACCCCGAGGACTTGGTCTGGTCTCTCTGGTGGCTACAACCCAGAGTTTTTAAGGACTTGGAAGGAA
AGCACAATCAGAGAAGAAAACAGCCCCGAACCAGCAGGAGTGGCCTGGCACATGGACCGGCCTGAGCGATGTGC
ACTCCACCCAAGCCAGGCTCCCAGGGGGCCTGATTTCTCTCTCACTGTCTCTTTTTTTAAATGGTTGCACGGCT
CTGCCCCATGGGGGGCCTTTTTTACACACTGCGAGGCCAGCTTTCTAGGGGACTTTTGCACATGTCATGCAGCT
CAGCTGGGAGCTGCTTAGGTGGAAAACCTCAAATAAAGTGGCGCTGTGCG

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FIGURE 2408

MAPGNYLIAIKYGGPQHIVGSPFKAKVTGPERLSGGHSLHETSTVLVETVKSSSSRGSSYNSIPKFSSDASKVVT
RGPGLSQAFVGQKNSFTVDCSKAGTNMMVGVBHGPCTPCEEVYVKHMGNRVYNVTYTVKEKGTSLSSSGVTKVS
LEAPSKSRSLQKCLPSLSPHLQPNTHYIHTHTHTNVPHPDHTHTQNQTLQTPALGVK

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FIGURE 2409A

GGAGGCGGGGCGGACCAAGAGCAGGAGCTGGAGTCTGAGCCGGTGGTTGCAGCGGAGGCGGTGATGTCGGTGCAG
GTTGTGTGTCAGCCGCGGCTGCCGCCAAGGTGCCTGAGGTGGAGCTGAAGGACCTGAGCCCCCTCCGAGGCGGAGTCG
CAACTAGGACTGAGCAGGCGCCCGTGGGCGCCATGGCCCCCGGCGGGCGGTGGAGACCTGAGGCTCCAGCT
CCCGCCGCGGAGCGCCCCCGGTCCCCGGCCCCGGGCTCGGGGCCCCGCCGCTCTCAGCCCCCGCGCGGGAAG
GTGCTCAGGCGTTCGGCCATGAAGCGGAGCGACCCACATCACCAGCACCAGCGGCACCGCGACGGCGGCGAGGCC
CTGGTCAGCCCCGACGGCACCGTCACCGAGGCGCGCGCACAGTCAAGAAGCAGATCCAGTTTGTGTGACCAGAAG
CAAGAATTCAACAAACGTCCCACCAAAATTGGACGTCGCTCTTTGTCTCGTTCCATTTCTCAGTCATCTACTGAC
AGCTACAGCTCAGCGGCTTCATATACAGATAGCTCTGATGATGAGACATCGCCCAGGGACAAGCAGCAAAAGAAC
TCTAAGGGAAGCAGTGACTTCTGTGTTAAGAACATCAAACAGGCAGAGTTTGGACGAAGAGAAATTGAAATTGCT
GAACAAGAAATGCCTGCATTGATGGCTTTGAGGAAGAGAGCTCAAGGAGAAAAAGCCTTTGGCTGGAGCCAAAATC
GTGGGTTGCACACACATCACTGCTCAGACTGCTGTGCTTATGGAACTCTGGGTGCTCTGGGGGCCAGTGCCGA
TGGGCTGCCTGCAACATCTATTCCACTCTCAATGAAGTGGCTGCTGCTCTAGCAGAAAGTGGATTTCCTGTTTTT
GCCTGGAAGGGAGAGTCAGAAGATGACTTTTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGGCAGCCA
AACATGATCTTGGATGATGGAGGGGATCTTACCCACTGGATTATATAAAAGTATCCCAACATGTTAAGAAAATC
AAGGGCATAGTAGAGGAGAGTGTTACTGGAGTTCACAGGCTGTACCAACTGTCCAAAGCTGGGAAGCTGTGTGTT
CCAGCCATGAATGTCAATGACTCAGTCACCAAAACAGAAATTTGACAACCTCTACTGTGCGGTGAATCAATTCTT
GATGGACTTAAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGGTAGTCTGTGGCTATGGAGAGGTGGGG
AAAGGGTGCTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTAACGAAATTGACCCCATCTGTGCCCTG
CAAGCCTGTATGGATGGATTTGACTGGTGAATTAATGAGGTGATCCGACAAGTGGACATTGTTATTACCTGT
ACAGGTAACAAGAATGTGGTAACCAGAGAGCACTTGGACCGTATGAAGAATAGCTGCATCGTTTGTAAACATGGGA
CATTCCAACACAGAGATTGACGTGGCGAGTCTGCGGACACCAGAACTGACCTGGGAGCGAGTGAGATCTCAAGTT
GACCATGTGATATGGCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGCTGCTGAACCTTAGCTGCTCC
ACAGTGCTACATTTGTGCTCTCAATCACTGCTACTACTCAGGCTCTTGCCCTGATAGAGCTTTACAATGCTCCT
GAGGGTCGCTATAAGCAGGATGTCTACCTGTTGCCCAAGAAGATGGATGAGTATGTGGCCAGCCTACACCTGCCT
ACCTTTGATGCCACTTGACAGAGCTGACAGATGAACAGGCCAAGTATCTGGGACTCAACAAGAATGGGCCCTTC
AAGCCTAATTACTACAGGTATTAAAGTTCTGTAACTCAAACCAGAATTTTAAAGGAATAGAACTCCAAGCCTTTT
CTCCACTACTATACAAGAAAGAATTACAGCAAGCTGCTTCTCCAATCAAAGCTGCCTGCCGTGCTACCCCTGTGTG
TTAGGTTATTTATTTATTAATAAATCAAGAATCCTGTGCTGTAGTGTGGCCAGAGTGTGGTTACTGCCCTGAGG
GCCATGAAAGCCACAGAGGATGGGCTGAGGAAGGAAAGAATGGGGTTACTGCTCCAGTGATCATTGTCATCA
TTCCCCATTGACTGAATCCTCAGCAGTGGCCGTTTTTCTCTGTCCAGGCTCACGAGTTAGTCCAGGGATTCCA
TACTCCCTATTCCCTGGAGTTTTCTGGAATAAATTTTACGACCTGCTTTTCTCAGCTTGGCCCTTCCCCGGGTG
AGGCCGTTTGGAAATTAACATGGCCAGTGTTTACACAAGATTGGGTTCCTCAATCTTGACCATCACTATCACTGCC
TTCTTTATATAAAGGCTAATAAGGAAGGAGTGTTATTTATGGCTTTGCCAAGCTACATCAAGAAGCTCAGCTGTGC
TGTGCCCTACCAGGGGTCTCCTTTCTTACCCAGGACTCCTTTCTCTCCTTGAATATTTATGTCCATTTTAACACT
TCCTGGTTGCAAGAGGGATGTGCCTCCATTATTTCTCCACAGTTTGGTATTTGTGAGACATTTGTCTGTCTGT
CTTTCTAATCCAGCCAACGTCTGCTCAGGAAGTGGGGCCAGCTCCACTGGGACCCATAGTTTTACTTCTCTGTCA
TTTGATTGGATAGTTTCCAAGGAAGCCCCCTCCAGATTGGCACTATCTCAGAAAAGGAGAGCTTGTGTGAAACAC
TGCTTCCTGAAACTTCTGCTATTGCTTAAAGCTACGCTCTGAACTGAGTAGGGAAAGGCATACTTTTCCAGGGA
CTTAGGGGGATAGGCTTTGGAAATGGGACAGGTCTTTCAGACTCACAGCTTGATACCTTAACAAAGCAGAGTATA
TTTATTTGTTTCCAGGAAGGCCATTGCAGTTTGACTGGCTGAGGGATACAGAGATGAAATTGTAACTGTATCC
AGATTATCAAAGCTAATTTGACTAGTTTGAACCTCGTCAGACATTCATTCTTTGGCCATTGCCATGGATGAAAC
CGAGATCTGCAGTCTGATCTGTGGACTTCTGCTGGCATATCTTTATGATTTAACCTCTTCCATTGATGATT
CTGTATTTAGAGTCAGTTCTTGAGTAACTCCAGTGCTACAAAAAGAATTAGTAATGTGGTGTGGCAGCGTGA
CATTTTATGTCCACCCAAAAATTGGATTCCCTTTGGAGACTGATCTGTTGGTCTCAGGCATTTTCATTAGGACCA
GATTGGTTCTAAGAGTTAGTCTGGACTGGCCCTAGGAACTTGAATTAAATAAGCCTCTTCCCTTACCGATCCT
TTTTAACACTCTCAGGTTTGTGTTTCCCACTTTTTCTATGCTGGTCTGCCCTCAAAGTCTCAAGACCAAGGT
GACTCAAGATAACACCAGACCACGCATGATCACCAAAACCTTCCCATCCTGATTCTTCTTCTACCTCTACCTT
CTCCAACCTCTCTGCTCTCACATATACTCTCAAAGCTAGTCTGAAAGTGACCTTACTTTCCGGAAGTAGGGAAG

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FIGURE 2409B

TGGAAC TTTGGTAAATGACTGTTTGCCTCATTTAATAGTATACAGGCTCAGCCCATAGACTACAGTTCTTCAGAG
GCCATATGTCTCAGCAAGTACTGGTTATATTCTTTTTTTGTAAGGAAGATCATAAATGCTAAAAATTCCACTAAG
CCATTCAGTTCTTCCTTTTGCCTACCTAGTCCTGATTTTTGTATTAAATTGGTTCCCTTTAGCAAGGGATTAGAT
CTTTGTACCTTATCTTATATCCAGAGCAGATTCCATTTGGCAGATAGATGGTCTCTAGCCTATTGTATTCTTAGA
CCAAAAATCATAACCTGCTGTTTCTCAGCAAAGCCTTGCTCTCTGGAGCTTACTATGTGCTGGTACTTAAAGAGT
ACATTCTGCCTTGCTGTAGTGAAGAGACCCACTCCAAATAAAAAAGGGGCCACACGGGGCTTCTAAGTTAGGTTG
CCAGTGTTGCTGCCCATGATGAGTTATTTGCCTCTGAGTTTCAGATGACCTCTCTGTAGGGACACTGTGTTATCA
ACCATTAAGAAGAAAGAACCAAGCCTCCCAAGTATTTGGGTTCTATCTTAGGGTTGAAATCTGGTCATTATTC
CCTCTACCCCTTGGAATCAGAGCAATGTGCTTCTTTCTCCCAACCTCTTACCTTAGATGCATCCTGGTTATCTGG
AAGCATGGGAAAGAAGGCTACTTATCTCTTTGTATGTGGCTCCAGTCTGTGAGGATACATAACATTTTCTCTACA
ATGAATCTGTGCTAATATTTTGCCTTCTTTCTTTTCTTTTCTTTTACCCTTAGAGACAGGGTTTCACTATGTTGC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCTTCCTGAGTAGCTGGAACACAGGTGT
GTGCTACCGTGCCTGGCACTTTTTTGCCTTCTTAATGGAGATATTCAGTTTTCTTTTTTTCATTTAAACAAAGAA
AAAAATGTATCTACTCTACCTTCCCTCTGCTCTCTCCTCCCTCCCTATCCTACTTGCCCATATGAGCACGGCTCCC
CATGGCCACATACTCCTGCAAAGCTTTTATGCTGCTTCGCTTTTCTCTAAACAGATCTGATATTGCTGCTCCTGT
GGTTTTCTCAAAATTAACCTTGCCGTGGTTTTTAAAAAGGAATCAAAATGCATTGTTGCATTAAAGCTTTTCAAT
AAAGGAAAATTACGGAAGGAAAATAGGCAACACCAGCAAATTATATGTGGACAGGTCTAAACTCTATATATACA
TATATATATATATATCTATATATCTATATACGTAATCATCTAGTTCTGTCTATCTTACTGAAAGGAATAACACTTC
TAAAGATCACCATTTCTGAGAAGTTCTTGAAATCTTTATGTCTAAGTGATTGTATTAGATCAGCAATAATGACT
ATGTAATCTCAAAAACAAATAAAATATTCTTAACATGG

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FIGURE 2410

MSVQVVSAAAAAKVPEVELKDLSPSEAESQLGLSTA AVGAMAPPAGGGDPEAPAPAAERPPVPGPGSGPAAALSP
AAGKVPQASAMKRSDPHHQHQRHRDGGEALVSPDGTVTEAPRTVKKQIQFADQKQEFNKRPTKIGRRSLRSISQ
SSTD\$YSSAASYTDSSDDETSRDKQQKNSKGSSDFCVKNKQAEFGRRREIEIAEQEMPALMALRKRAQGEKPLA
GAKIVGCTHITAQTAVLMETLGALGAQCRWAACNIYSTLNEVAAAALAESGFPVFAWKGESEDDFWWCIDRCVNVE
GWQPNMILDDGGDLTHWIYKKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCR
ESILDGLKRTTMMFGGKQVVVCGYGEVKGCCAAALKAMGSIVYVTEIDPICALQACMDGFRVLVKNLNEVIRQVDI
VIITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVASLRTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLLN
LSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPTFDAHLTELTDEQAKYLGLNK
NGPFKPNYYRY

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FIGURE 2411

AGTTCCTGGTCCAGAACTTTACACAGAAAAGGTGCTCAAAGGATATTTGTTTAAATGAATGTGGTATGCTGACATT
TAAACAGGACAAAACTTTGTAGAACTTCATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAA
GCACATGCAGTGGCCAGCAAGTGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCTGAT
GAAGACTCGCCTTCTTCTCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAG
GTGACAGCTCATCTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGG
AAACGGCCTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGGAACTTTCGA
GCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGTCCTCTGTATCTCACCCTCCAAACCTAAC
CCTGTCTTTAAAGTGTGTTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCCTGGAAGAC
CTGGAGTCTGCTCTGGCAGAACACGCCCCCTGCGCCACAGGAGGTTAACTCAGAACTGCCGCTCTCACCATCGAC
GGAATTCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCAGAGATGCTCAAGTACTCT
ACAGGTTCGGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGTGGCCTGAAGATATCCCCTGGGCA
AATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTCATGGACCCAGGCACTACGGACCATAGTT
AAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGATGCCTTTGAAGATCAGCAAAACGCAACACAGGCC
ACAGCCACACATAGTATAGCTCATCTTGTAACATCACAGACTGTAGTCCAGACTTTTAGTAACCTGATGGCACT
GTCTCACTTATCCAGGTTGGTACGGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACACGGTC
ACCGTTGCCCAAGTGAATTATCTGCCGTGGCTGATGGAGAGGTGGAACAAAATTGGGCCACGTTACAGGGAGGT
GAGATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGGCA
GCTTCTCAGGAGATGCAGCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCATGCTGTCGCC
ACCCTGGCTGAGGCCACCTTACAAGTGGGGGACAGATCGTCTTGCTGGGGAAACCGCAGCAGCCGTCGGAGCA
CTTACTGGAGTCCAAGATGCTAATGGCCTCTTTATGGCAGATCGTGCAGGTGCGAAGTGGATCCTGACTGACAAA
GCCACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACCAGCCTCGCCAGGGCAACGGACCA
GTGCAGGTGGCCATGGCCCCCTGTGACCACCAGGATATCAGACAGCGCAGTCACCATGGACGGCCAAGCTGTGGAG
GTGGTGACATTGGAACAGTGACATACAGCCATATTATGGCATCGTTTTCTAGTCTACTTCAAAATTTTTTACACG
TTTGAGAGGTGCAATCAAATGGAATTAAGTCTCTCGACTTTGGAAGGAAAGTTTTGTTAACCTTTTTTTTTTA
AAAGGAAGAAAGCGGATTTTGGAATTGCATTTTTTAAAGCAACACTCTTGATTTCTGGGATTGGTGAAGAACT
GCATTGTCAATTTCACTGTCCAAAAAGCCAAATTGTGGCAGGACTTCTTCTGCGGAAATGTGTGTATACT
TATGTGTGTATGTGTGAGTGTGAATATATGTATATGTGTACATATGGACATACACATTTACATATATATAAG
TATATATATACATATATATATATATATATATGTATGAAACCCGCATGGAATTATCTGTATGAAATCAAGGTGCGCTG
TGGAAACAATAATTCACCCAGTTTAGTGGGTGGTAGGGTACGTGGCCAGACACAGTCACCCAGTTTTGTTCATA
CCAGGGTCATGCGTTGAGCTACTGACAACTCAGGCGGAGGTGACCATGCCCTTCACCAAAGCTGCCTCCCAGTG
GCCACACAGAACTCTCCCTGCTGGACTCACCTGAGGAAAGAGGCTCCAGCATGGGGTGGGTGAGAGATGTGCTTG
CAAGGTCCAGGGACTGCGTGGTCTGCCAGCTGAGATGCTCCTCGGGCTGGCCAGGTGCTGACCTGCCACAGGC
AGATGAATGTCTTGAAAGCTCCCGGGCCTCAGCCTCCCATCTCCTCTCCTTCCCAGGAATCCTTGATCTCATGAC
TATTAATGTTGCTCTGGTTTTAAGGTCAGTCTGAATTGCTCGTATATATGAAGTGAAGGTAACCGAAGTATT
AGGGGTTTGAGGAGTGCCTGCGTGTAAAGTGTGCTGTGTGTGCGTGCATGGTGGGGGAGAGGATGGGAAGGG
GCGGGGGCAGTGGAAGGGAAAGGAAGGAAAGAAAATCGTCCTAGACCAGGATACACCCGTGGGAGCAATTTTCT
CTACTGTCTGTAGCTTACAGAGGAGGCGCTGGAATGAACAAGAAGAGACATCTGGTCTGTGGCCACAGCACCTT
GAACGCCCCGATCTTGTGTGATCTTGGAAGCTAAGCTTGTTGGGCCCGGTGAGTACGCGGAAGGGAAGAGGG
ACACCTGGCCATAGAAAACAGCTGAGGGTGTGCTGTGTTCTTGGATCAGGCCCTGCTTCAGAAGGGACTCCTG
GAGGCCCATGTTCTTGTATGCAACCTCGTGGCCAGGCCGGGAGCAGCTTGCTCCTCAGAGGTGTTGACTATCT
GGGTGTTCTTGGTAAC

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FIGURE 2412

MEEHGVQTQTEHMAIEAHAVAQQVQVHVATYTEHSMLSADEDSPPSPEDTSYDDSDILNSTAADEVTAHLAAAG
PVGMAAAAATGKKRKRPHVFESNPSIRKRQQTRLLRKLRLATLDEYTTTRVGQQAIVLCISPSKPNPVFKVFGAA
PLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWG
KESCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLYAFEDQQTQTQATATHSIAHL
VPSQTVVQTFSPNDGTVSLIQVGTGATVAILADASELPTTVTVAVQVNYSAVADGEVEQNWATLQGGEMTIQTTQA
SEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANG
LVQIPVSMYQTVVTSLAQNGFPVQVAMAPVTTRISDSAVTMDGQAVEVVTLEQ

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FIGURE 2413

GCCTCAAGAGGCGGATATTAACCTCCCAGGACGGAAGTTCCGGAGCCTTCAAACCTCTCGGGGAAGCAACTCGGCA
GCGGACCAAGATGGCGGCGCCCTGTGAGGGACAAGCGTTTGCCGTAGGGGTGAAAAGAATTGGGGTGCAAGTAGT
TCGCTCCCCAGAAGGGACCCCCCAGAAAATCCGGCAGCTGATAGATGAGGGGATTGCCCCGGAAGAGGGAGGCGT
GGACGCGAAGGACACGTCTGCCACATCCAGTCAGTTAATGGATCACCCCAAGCGGAACAACCTTCATTGGAATC
TACAAGCAAAGAAGCCTTCTTTAGCAGAGTGGAACATTTCTTCTTTGAAATGGGCAGGTAAGCCCTTTGAGCT
GTCTCCACTCGTCTGTGCAAAATATGGCTGGGTACAGTGGAATGTGATATGCTCAAGTGCTCTAGCTGTCAAGC
TTTTCTCTGTGCCAGTTTACAACCAGCTTTTGACTTTGACAGATATAAGCAACGATGTGCTGAGCTGAAGAAAGC
CTTGTTACTGCCCATGAGAAGTTCTGTTTCTGGCCAGACAGCCCATCCCAGACCGATTGTTGGGATGTTGCCCT
GGATGAGCCTGCTATTCTTGTAGTGAATTCCTAGATCGTTTTCAAAGCCTTGTCACTTGGACCTCCAGCTTCC
TTCCCTAAGGCCGGAGGACTTGAAAACATGTGCTTGACAGAAGACAAGATCAGTCTTCTCTACACTTGCTTGA
AGATGAACCTGATCACCGAAGTATGAGAGAAAACTACAATCAAATTAGGCTCAGACATCCAAGTCCACGTCAC
TGCCTGTATTCTCTCTGTGTGGCTGGGCGTGTAGTTCCTCTTTGGAATCCATGCAGCTCTCCCTGATAACATG
TTCGCAATGTATGAGGAAGGTGGGGCTCTGGGGCTTCCAGCAGATTGAATCGTCCATGACTGACCTGGATGCATC
CTTTGGCCTGACCAGCTCCCCAATCCCAGGCCTTGAGGGGCGACCAGAGCGCTTACCTCTGGTGCCTGAATCTCC
TCGGAGGATGATGACCCGAGCCAGGATGCCACTTTCTCCCCAGGCTCAGAGCAGGCTGAAAAGAGCCCTGGTCC
CATTGTCTCTCGAACTCGGAGCTGGGACTCTTCCAGTCTGTTGACCGTCTGAGCCAGAGGCTGCTAGCCCCAC
CACCAGAACTCGCCAGTGACCCGAAGCATGGGAACAGGAGACACCCCTGGCCTGGAGGTACCATCTAGCCCTCT
GCGGAAAGCCAAGCGAGCTCGCCTCTGCTCCTCCAGCAGTTCGGACACATCTTCCCGAAGCTTCTTTGATCCCAC
CTCTCAGCATAGAGACTGGTGCCCTTGGGTGAATATCACACTTGGCAAAGAAAGCAGGGAGAATGGTGGAACCTGA
ACCAGATGCCAGCGCCCCAGCAGAGCCAGGCTGGAAAGCAGTGCTGACCATCCTCTTGGCGCACAAACAGTCTAG
CCAGCCAGCTGAAACGGACTCCATGAGTCTCTCTGAGAAATCAAGGAAAGTATTCCGAATATTTCGGCAGTGGGA
ATCTCTGTGCTCATGCTGAAGATACTCCAGCGCCTTCTCGGAGATAGCTGGAATGAGAGTGACTTTTTGAAAAAT
TAAGGCTGAGTTCCTTTTCGGTCAGCTGACACTAAGTTTTCTGTTCTGGGTTAATCATAAGGAGCCCCCTGCCA
TAGCAAAGGCAGTGAGTGTCAACTATCTGCATCTGGCTGAGAGAGACCCGTTTCTTTTCAGGGATGTGGACAGGG
TAAGGGCAGCAAGCATGGTTCTGTTAAAGGAGTGTTGGGATTAACAGACTAGAAGGAAGACTAAGGACCTGACCAC
CCATTTTCAGCATCTTCAATGTGGAGCAGTGTCTGAGGACTCTTCTATCCTAGGACTATGACAGTGTGTATTAAAT
AAAATATTGCTAAGATTCTCA

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FIGURE 2414

GGCGCTGACGCCTGGCAGGGAGAAGGCGGCAGCACATGCTGGGCTCGGGGGCGATGGGCTTGTGCGCGGACCTGG
CGACGCTCTAGCCCCGAGCCGCGTATTCGTGGCCGGGTCTCCCTGGGAACAGGGTGAAGGCCGAGAACCTCTGG
CCTCAGGAAGCGCATGCGCAACCGGTTCTCCGAAACATGGAGTCTGTAGGCAAGGTCTTACCTGAATCAGGATG

AGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTGCACATCCCACCCCTCAG
CTCTCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCACTTACAAGGGACTGCGTATCTTCTACCAA
GACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTCCAACATCCAGCTACGACTGG
TACAAGATTTGGGAAGGTCTGACCTTGAGGTTTCATCGGGTGATTGCCCTTGATTTCTTAGGCTTTGGCTTCAGT
GACAAACCGAGACCACATCACTATTCCATATTGAGCAGGCCAGCATCGTGGAAGCGCTTTTGCGGCATCTGGGG
CTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTAC
AAGCAGAATCGATCTGGTCGGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTTCTGAGACTCAC
CGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTACCCCATCCTCACACGACTGATGAACCTC
TTTGTAATTCTCTCGAGGTCTACCCCACTCTTTGGGCCGTATACTCGGCCCTCTGAGAGTGAGCTGTGGGACATG
TGGGCAGGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAG
TTCAGAAGGCGCTGGGTGGGAGCTCTTGCTCTGTAACTATCCCCATTCAATTTATCTATGGGCCATTGGATCCT
GTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGGTCCACAGTGTGCGATTCTGGATGAC
CACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC
TGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTATGTGTTGTGTATTCCACTTAGGAAGAAA
TGCCCAAAAGAGGTCTTGCCATCAAACATAATTCTCTCACAAAGTCCACTTTACTCAAATTGGTGAACAGTGTA
TAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCCACCTCCCATTACTTTGATATCTGATCAA
ATGTATAGACTTGGCTTTGTTTTTGTGCTATTAGGAAATCTGATGAGCATTACTATTCACTGATGCAGAAAGA
CGTCTTTTGCATAAAAGACTTTTTTTTAACTTTGGACTTCTCTGAAATATTTAGAAGTGCTAATTTCTGGCC
CACCCCAACAGGAATTCATAGTAAGGAGGAGGAGAAGGGGGCTCCTTCCCTCTCTCGAATGACGTTATGGG
CACATGCCTTTTAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCTTTGTACATACCTTTGGATTTAGTGTTTCA
TCAGCTGTTTTTAGTTATAAACATTTTGTAAATAGATATTGGTTTTAAATGATACAGTATTTTAGGTATGATTT
AAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTAAACCAGCATACCCTTACTCTGCCAGAGT
AGTGAAGCTAATTAAACACATTTGGTTTCTGAATAAATTGAACTAAATCCAACTATTTCTTAAATCACAGGAC
ATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTGGGAAGACCAATTCTAACAGCAAATAACA
GTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTTGAGCTACAGTAGAGGGGAAGGGATTGTTGT
GTAGTCAAGTCACCATGCTGAATGTACACTGATTCTTTTATGATGACTGCTTAACTCCCCACTGCCTGTCCCAGA
GAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGGAAAGTTCCAGAACTTTAAGAACAACT
CTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTTAAAGCCACATTTCAATTGCTTTAGTCAAAGCAGG
ATTATTAAGTGATTATTTAAATTCGTTTTTTTTTAAATTAGCAACTTCAAGTATAACAACTTTGAACTGGAATAA
GTGTTTATTTCTATTAATAAAAATGAATTGTGAC

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FIGURE 2415

MREWWVQVGLLAVPLLAAYLHIPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGTVGSPEIVVLLHGFPTSSYD
WYKIWEGLTLRFHRVIALDFLGFGFSDKPRPHYSIFEQASIVEALLRHLGLQNRRLNLLSHDYGDIVAQELLYR
YKQNRSGRLTIKSLCLSNNGGIFPETHRPLLQKLLKDGGVLSPIILRLMNFVFSRGLTPVFGPYTRPSESELWD
MWAGIRNNDGNLVIDSLQYINQRKKFRRRWVGALASVTIPHFYIGPLDPVNPYPEFLELYRKTLPSTVSILD
DHISHYPQLEDPMGFLNAYMGFINSF

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FIGURE 2416

TGCTTGTACCTAGAAAGGGAGACGAGGAAACACACATGTAGCTGAGCAAACCTAAACCAGTGCACCGCTGAAAACG
AGAGAAAAAGGATACAAACAGTCCAGAAACAATGTACTTTCTAGCATCATAAGCTGAAGTCTGAAGCTCCACTG
ACCTGTAGAGAAGCTCCTGAGCAACAATATCTCCATAGTCATGAGAAAGAAGGTTGATCCTGCGGTTCTGGAGCC
CCAGATGCCGCAAAGCGCTTCCACGATGCTGGCCTGCTCAAATATGGAATAGTGATGTGGTCTCTGAGGAAAGG
AAAGCCCACATACACAGGATGAAGTCATGAGGACAGCTCTCTGCCAGCCTGACCCTCATAGTCTGCGTCTGCC
CCCACACCCCATCACCAGCCCATAGGTGCTGCTTACCGGTTTGTCACTGAAGCCAAAGCCTAAGAAATCAAG
GGCAATCACCCGATGAAACCTCAAGGTCAGACCTTCCCAAATCTACAAGAAAGAAACGATGATTTGGGCTTTCTG
CTCCTGCCCTCCCTTTTACCAGACCTACAGTTGCACAGGAGCTTCAGCCCTATCTTGGCTTAACAGACTTCCAT
AAAGAGAAAACGCCATGAAACTACCACAGGTCACACAGATGATCCTCTTGGAAAATGCTTTATTCTGGTAATTA
ATCCCTGTTGAGGGAGGGTAACCTTGGCAGTGATCCCTTCCAGAGTGCCAAGGAGTTGTTTATTCCCTTCAGTAAA
TAAGGAACAGTTCAACATTTAATGTTTTTTTAAAAAGCAATTCAAATGTGCAAGAGCCTTCTGGTGCTGACAACAA
AATCCTTGAGGTTTTTTTAAATTTTTTATTAATAAAAAAATTTTTTTTGGAGACAGACTCTCGCTCTGTACCTAGGC
TGAAGTGCAGTGGTGCAATCTCAGCTCACTGCAACCTCTGCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCTTGTGCCACCATGCCTGGCCAATTTTTTATACTTTTAGTAGAGATGGGGTTTT
GCCATGTTGGCCTGGCTGGTCTCAAACCTCCTGACCTCAGGTATCCTCCACCTCAGCCTCCCAAAGTGCTAGGA
TTTGAGCCCCCGCGCCCGGCGAGATTTTTTAAAGACATAGTAGGACGTAGAAGTCTGACTTCATTACCTTGTACC
AGTCGTAGCTGGATGTTGGAAAACCGTGTAAGCACAACCTATCTCTGGACTTCCAACCACACCCACAGAGTCTA
GGAAGAAGGAAAGTACAATCAATTATGCCAAATCCCTATAAAAAATAACCTCGAAGATGTTAAATCTAAGTAATC
TGATACAAAGAACAAGCAACTGTGACCAAATTGACATTAATAATGACACAATTATTTGTAAATGTAAAGCTTAAC
GCGTTAGGTGAGAACAGGCCTTTTCTCCTTTCAATCTGTATATTAATAACATTGTAAAAATCATGCTATGTGAAA
TACTTGAAGGCACCTTGTTTACTTTTACCTAGGTGTTTTTAAACAGCATCTCCCCATTTCTCCTTTTGTCTGTA
ATATGCAAATTTTTTTCAGTGAAAAGTAAATTTTTCAGTTAAAGCATATGATCACAACACATAAACTACAAATCT
TTGTACTTTATCATGAATGGCCTCACAGAAATCTCTAAGATACAGCAACTATTTCCCAAGGAACACCTTTAGCTT
ATGCTGTTTGCTCAGCACTTTTTATTTCAGCAGGAGACCCAATCTAACATCAAAAACATAATAAACTATTACAAA
ATCCTGTCAACTATAAAAAAGGCTTAATCAACATAAACATGAACTTTTTAAATGCATATGACAATATGGAAGCAT
TCAGCATCATCTAAATTAGGTAAACATTTAGACAATATTAACCTTGCTAATAGTATGGGATTAGAACAGGTATAT
TCATATACTGCCAGTGACATGAAAATTTGGTAATAAGGTTTTTCAAAAATAATTTAGAAGCAGTTAAAAATTGTAT
ATACTTTAGCCTAAGAGTTTTGTTCTTGAGAACTCTGTGCAATAAAATCATTCCATTTATACAAGTAGTATAGTT
TGAAATGTAAAGGAAAAATAAACTGTATGGACATGAAGCTTTTACTTCAACATTAGTTTTCTAAACAGTAAAA
CTGGAAGTAACCAAGCCAACATAATAAAATTTGTATACTTACTTAATTGAATATAGCAAATGAGAGGAGGTCAG
GAGCAATAATGAAAAACGGTTTATGACAAACATTTTTCGTTATTGCTCTTGACCCCGCTCAAAACAAATCATTT
CCAATCTGTTTCTCAGTTTCTTCACTATAAAATGAGGTAAATGGCACCTATCTCCAAATGCTGTTGTAAAGATT
AAACAATGAAGGCTGAAAACATAACTCAGTGCTGGCATATGGTAATTACTTGATAAGTAGTGGTCATAATAATC
ATCATCTAGCAAATTAATTTATATAATGGTATCAAGACTTAAATCACAGTTACACTACAAATAATCTACAGAA
AAAATGAAATCAGGGATGGTAAGGAGAGAGAACCAATGGTGGTTATATCTATTAATATTTTATATATTACCTGAC
AGGTTGCTC

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FIGURE 2417

TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCCAACCTTCATGTATGAAGGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACAACCTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAAACCTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA

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FIGURE 2418

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCCACCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCAAGGGGTATGGTGCCATCACAAAGCAGATGTGGCA
GTATTTGAAGCCGTGTCCGGCCCCACCACCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCT
TACGAAAAGGAAAAGGCCGGCCTGCCAGGAGTGAAGAAAGCTTTGAGCAAGTATGGTCCTGCCGATGTGGAAGAC
ACTACAGGAAGTGGAGCTACAGACAGTAAAGATGATGATGACATTGATCTCTTTGGATCCGATTATGAGGAGGAA
AGTGAAGAAGCAAAGAGGCTAAGGGAAGAACATCTTGACAATATGAATCAAAGAAAGCCAATGATGAGACAGAT
ATGGCGAAATTAGAGGAGTGTGTCAGAAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCA
GTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTTGGAACAGATATGCTGGAG
GAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTCAACAAGATCTAAAAATCCATC
CTGGATCATG

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FIGURE 2419

MVPSQADVAVFEAVSGPPPADLCHALRWYNHIKSYEKEKAGLPGVKKALSKYGPADVEDTTGSGATDSKDDDDID
LFGSDYEEEESEEAKRLREEHLAQYESKKANDETDMAKLEECVRSIQADGLVWGSSKLVPGYGIIKLQIQCVVED
DKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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FIGURE 2420

CTTCTTTTGC GGAATCACCATGGCGGGCTGGGACCCTGTACACGTATCCTGAAAACTGGAGGGCCTTCAAGGCTCT
CATCGCTGCTCAGTACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAA
CCGCACCTCTGAATTTCTTCGCAAATTTCTGCGGGCAAGGTCCCAGCATTGAGGGTGATGATGGATTCTGTGT
GTTTGAGAGCAACGCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCA
GGTGGTGCACTGGGTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTCCCCACCTTGGG
CATCATGCACCACAACAAACAGGCCACTGAGAATGCAAAGGAGGAAGTGAGGCGAATTCTGGGGCTGCTGGATGC
TTACTTGAAGACGAGGACTTTTCTGGTGGGCGAACGAGTGACATTGGCTGACATCACAGTTGTCTGCACCCTGTT
GTGGCTCTATAAGCAGGTTCTAGAGCCTTCTTTCCGCCGGGCCTTTTCGCAATACCAACCGCTGGTTCTCTACCTG
CATTAACCAGCCCCAGTTCCGGGCTGTCTTGGGGGAAGTGAAGTGTGTGAGAAGATGGCCCCAGTTTGATGCTAA
AAAGTTTGCAGAGACCCAGCCTAAAAAGGACACACCACGAAAGAGAAGGGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCGGAAGGAGGAGAAAAAGCGGGCTGCCCTGCTCCTGAGGAGGAGATGGATGAATGTGAGCAGGC
GCTGGCTGCTGAGCCCAAGGCCAAGGACCCCTTCGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAA
GCGCAAGTACTCCAATGAGGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTG
GTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGAACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGG
AATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTATCCTTTTGGAAACCAACAATAGCAG
CTCCATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCTTTCCGCTGAGTCCAGATTGGCAGGTGGACTA
CGAGTCATACACATGGCGGAAACTGGATCCTGGCAGAGAGGAGACCCAGACGCTGGTTCGAGAGTACTTTTCCTG
GGAGGGGGCCTTCCAGCATGTGGGCAAAGCCTTCAATCACGGCAAGATCTTCAAGTGAACATCTCTTGCCATCAC
CTAGCTGCCTGCACCTGCCCTTCAAGGAGATGGGGGTCAATAAGGAACTGAACATTG

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FIGURE 2421

MAAGTLYTYPENWRAFKALIAAQYSGAQIRVLSAPPHFHFGQTNRTSEFLRKFPAGKVPAFEGDDGFCVFESNAI
AYYVSNEELRGSTPEAAAQVVQVVSFADSDIVPPASTWVFPTLGIMHHNKQATENAKEEVRRLGLLDAYLKTRT
FLVGERVTLADITVVCITLLWLYKQVLEPSFRRFRNTNRWFLTCINQPQFRAVLGELKLCEKMAQFDAKKFAETQ
PKKDTPRKEKGSREEKQKQAERKEEKAAAAPAPEEEMDECEQALAAEPKAKDPFAHLPKSTFVLDEFKRKYSNE
DTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGMFQRLDKLRKNAFASVILFGTNNSSSISGVW
VFRGQELAFPLSPDWQVDYESYTWKLDPGREETQTLVREYFSWEGAFQHVKGAFNHGKIFK

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FIGURE 2422

ATCACCATGGCGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCTCATCGCTGCTCAG
TACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAACCGCACCTCTGAA
TTTCTTCGCAAATTCCTGCCGGCAAGGTCCCAGCATTGAGGGTGATGATGGATTCTGTGTGTTGAGAGCAAC
GCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCAGGTGGTGCAGTGG
GTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTAGCCCAAGGCCAAGGACCCCTTCGC
TCACCTGCCCCAAGAGTACCTTTGTGTGGATGAATTTAAGCGCAAGTACTCCAATGAGGACACACTCTCTGTGGC
ACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTGGTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGA
ACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGC
CTTCGCCAGTGTATCCTTTT

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FIGURE 2423

GAAGGCCGCACCGTACTGGGCGGGGGTCTGGGGAGCGCAGCAGCCATGGCAAGCCGTCTCCTGCTCAACAACGGC
GCCAAGATGCCCATCCTGGGGTTGGGTACCTGGAAGTCCCCTCCAGGGCAGGTGACTGAGGCCGTGAAGGTGGCC
ATTGACGTCGGGTACCGCCACATCGACTGTGCCCATGTGTACCAGAATGAGAATGAGGTGGGGGTGGCCATTAG
GAGAAGCTCAGGGAGCAGGTGGTGAAGCGTGAGGAGCTCTTCATCGTCAGCAAGCTGTGGTGCACGTACCATGAG
AAGGGCCTGGTGAAAGGAGCCTGCCAGAAGACACTCAGCGACCTGAAGCTGGACTACCTGGACCTCTACCTTATT
CACTGGCCGACTGGCTTTAAGCCTGGGAAGGAATTTTTCCATTGGATGAGTCGGGCAATGTGGTTCCCACTGAC
ACCAACATTCTGGACACGTGGGCGGCCATGGAAGAGCTGGTGGATGAAGGGCTGGTGAAAGCTATTGGCATCTCC
AACTTCAACCATCTCCAGGTGGAGATGATCTTAAACAAACCTGGCTTGAAGTATAAGCCTGCAGTTAACCAGATT
GAGTGCCACCCATATCTCACTCAGGAGAAGTTAATCCAGTACTGCCAGTCCAAAGGCATCGTGGTGACCGCCTAC
AGCCCCCTCGGCTCTCCTGACAGGCCCTGGGCCAAGCCGAGGACCCCTTCTCTCCTGGAGGATCCCAGGATCAAG
GCGATCGCAGCCAAGCACAAATAAACTACAGCCCAGGTCTGATCCGGTTCCCCATGCAGAGGAACCTGGTGGTG
ATCCCCAAGTCTGTGACACCAGAACGCATTGCTGAGAACTTTAAGGTCTTTGACTTTGAACTGAGCAGCCAGGAT
ATGACCACCTTACTCAGCTACAACAGGAACCTGGAGGGTCTGTGCCTTGTGAGCTGTACCTCCCACAAGGATTAC
CCCTTCCATGAAGAGTTTTGAAGCTGTGGTTGCCTGCTCGTCCCCAAGTGACCTATACCTGTGTTTCTTGCTCA
TTTTTTTCCCTTGCAAATGTAGTATGGCCTGTGTCACTCAGCAGTGGGACAGCAACCTGTAGAGTGGCCAGCGAGG
GCGTGTCTAGCTTGATGTTGGATCTCAAGAGCCCTGTCAGTAGAGTAGAAGTCTCTCCAGTTTGCTTTGCCCTT
CTTTCTACCCTGCTGGGGAAGTACAACCTGAATACCCTTTTCTGACCAAAGAGAAGCAAAATCTACCAGGTCAA
AATAGTGCCACTAACGGTTGAGTTTTGACTGCTTGAAGTGAATCCTTTCAGCAAGACTTCTCTTTGCCTCAAA
TAAAAAGTGCTTTTGTG

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FIGURE 2424

MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNEVEGVAIQEKLREQVVKREELFI
VSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILDWAAMEELVD
EGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLQYQSKGIVVTAYSPLGSPDRPWAKPED
PSILEDPRIKATAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFELSSQDMTLLSYNRNRVCA
LLSCTSHKDYPFHEEF

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FIGURE 2425

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTCTGCACCAACCATGGCCCAGTTTGTGGAGCTCAGTAC
CAAAGCCAAGATGCCCATTTGTGGGCCTGGGCACTTGGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT
TATTCCTGGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCCAAAGATGATAAAGGTAATGCCATCGGTGG
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAAGCCCTTGGGGT
CTCCAATTTAGCCACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTACTAACCA
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCCAAGAT
TAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTGAGGCTTTTGACTTTAAATTGAGTGATGA
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGA
CTATCCCTTCGATGCAGAATATTGAGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA
GTGTGACTACCTCCACTCATGTCCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTTAGTCCTGTTATAGA
CGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAA

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FIGURE 2426

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLFI
VSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLIHWPOGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD
EGLVKALGVSNFSHFQIEKLLNKPGLKYKPVINQVECHPYLTQEKLIQYCHSKGITVTAYSPLGSPDRPWAKPED
PSLLEDPKIKEIAAKHKKTA AQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN
VLQSSHLEDYPFDAEY

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FIGURE 2427

CAGAGTTTGGGCGCCAGGCGAGACGGCAGGGCTTAAAGTTCCGGGAATCAAAGATCAACTCCCCTGAGGACAAA
TGGACCTGTAATTCCGGGTGTGACGAGAGAACGAGATTTACCTTCCTGAATTAACAGGTCATTAAGCTTGG
GCCCTGACTTTTTCTTTGTGAGAAGGTACAGAGATGGAACCTTACAATCCGAGACTAAAACGAGGGTCCCTCCCT
CATGGCTGACAGCCCAGGTGGCTACAAAGAATGTGGCACC~~AATGA~~AGGCCCCCAAGAGGATGAGAATGGCAGCAG
TGCCAGTGGCAGCAGCAAGACTCCCTGCGACAAGGACTGTGTACTGCATGAATGAGGCTGAGATAGTTGATGTTG
CTCTGGGAATCCTGATTGAGAGCCGCAAACAGGAAAAGGCCCTGCGAGCAGCCGCCCTGGCGGGGGCTGATAACC
CAGAGCACTCCCCTCCCTGCTCCGTGTGCGCTCACACAAGTTCTGGGAGCAGCAGTGAGGAAGAGGACAGTGGGA
AACAGGCACTGGCTCCAGGCCTCAGCCCTTCCAGAGGCCGGGGGGTTCCAGCTCTGCCTGTAGCAGGAGCCCTG
AGGAGGAGGAGGAAGAGGATGTGCTGAAATACGTCCGGGAGATCTTTTTCAGCTAGGGCATAAACTGTGCACTGA
ACTGTCTGCCGAGAGCAGCTGGAGGACAGCTGAGCTTCCACTGGTGCTGCTGGGCCGCCCGCCTGTGGGAATGGG
GCTCTCTGTGCTCCTACCTTTGTGCCTTCTTGGGCCTGGCAGATTCACCTCAGGCCAGAAGCCCCCTGGACACTCC
GGGCCCTTGGGGCTGCCGTTCTGAGTGTGCGGAAGGCAGGACTCAAAATGAGATCCCATTGACTCCCTCTGTATG
TACTGTGCCCTCTCCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGTTCCAGGGA
AAATGATGTGATGTGGTGGTCCAACCTTACTGGAACCAAAGAGACAGTACTTTGCAAAGAAAAGGATCACTGCCAG
GTGCACTGGAATTGCTACAGTTTAGTCCGCATGATCTCTCCTGAAGGAGGAAGCCTGTTTCAAAAATAGTTTCCA
TCATGAGTCTATCAATGAGCTCCACCTCTCCAGCCAGCCTAGAAAGCAAACGAGCTGCCCACAGTTCTCTGCCC
TGTCTGGGAGGTTGAGGCCACAGTGTATAGACTGGTAAGCCAGACAGGCCTCCTCCCGCAAGCTGTACCTTGCT
TTCACCTGTACCTTGGTCCCCGGGCAGCTAGCTATAAAGCAAAGAGGGACAGGAGCCCAGAAGAGACACTGAGGAC
AAGAGATCACACCAGAGTACATGTCTCTGCCTCTGTTTTTCAGTGTGGCTTTGGACAGGAATATATGAATAAATCA
CTGCCATACAGGTTTTCCAATACACAAGTGCTAGAAAATACACACAATTCCCAATGAAAAAAAAAAAAAAAAA

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FIGURE 2428

MKAPKRMRAAVPVAAARLPATRTVYCMNEAEIVDVALGILIESRKQEKACEQPALAGADNPEHSPPCSVSPHTS
SGSSSEEDSGKQALAPGLSPSQRPGGSSACSRSPEEEEEDVLKYVREIFFS

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FIGURE 2429

GAGGTAGGCTCGGACCGGCCCGCGGAGCTGCTGCAGTCCCTCGCGCCCTCCTCGCCCTCCCCACCGACATCATGC
TCCAGTTCCCTGATACCAAACCTGGCTAAAAAACTTGAAGAAATTAAGGACTTGGATGCCAAGAAGAAACCCC
CTAGTGCATGAGACTGCCTCCAGCACTGCCTTCAGGATATACTGATTCTACTGCTCTTGAGGGCCTCGTTTACTA
TCTGAACCAAAAGCTTTTGTTCGCTCTCCAGCCTCAGCACTTCTCTTCTTTGCTAGACCCTGTGTTTTTGGCTT
TAAAGCAAGCAAAATGGGGCCCCAATTGAGAATAACCGACATTTCCAACATACTCACCTCTTCCCATAATCCC
TTCCAACATGCATGGGAGGTTCTAAGACTGGAATTATGGTGCTAGATTAGTAAACATGACTTTTAAATGAGTAGTG
TCTTCTTTATCGTTTGCATTTTTTACTACCTTTTTTCAAAAGAAAAATTGATGAGTTTTGTATAGCTGGTCAGAT
ACAAATAATAGTGACTTTCAGITTAGTAATTATAATGGGTACTTGTAAACATTTGGTACTAAATTATGTTGCT
GCAAAGTAATTAATAGTATCTAGAGCTAGTTTCTGGTGAATTATTCATTTATTTTGTACTGTTGTTAGGCAG
CTCTGTAGTTGCTAATTTAACCAATAAGTCAATTTGCTATTTCATGAAGAAACGATTCTGAGAATCCTGTCAGGAA
TTGGGGAATGAAAAATACACAAAATAATGGTCTTTTGTCCAGTAGAGTTCATAGTCTATTTAGTGTGCATGTTT
TTCCCTTAATGATGATTTGATCTGACTTTTTTCTTCTCAAAAGAATCATACTTGGGATTACAGGTACATTTGAT
GTTATATGATGGATAAGTGAAAAGTTTTTAAAGGAGATTTTATACCTTTTCACATTAAAAAAGGTATTTATATTA
TTACTTTGTAGTGATTGTCTTAAGAAAAATATAGCCCAATGTATAGTAAATCAGCAGCTCAAGAAGAATTC
TGCTTCTCTTTGTAGTTGATGCTTTGTTTTTCTTGCAGTCAGAAATTCCTTGTATTGTCAAATGTATAATCAG
CTTGATTGTTTTTAAATTAATAAATTTGAATAATTAATTTTGCCATGGGACAAGATACAAAAGTAATTTCA
TATAAAGGGCCTCTCCACCCCTGTTCTCTGGCTCCTGGCTCCTGTTTGACAAGTTACTGTTACCACTTCGCCCTT
ATACTTTTGTAGAAAGAGTCTGTGCCTAAACAAACACGTGTAACACAAATAGTAACATACATGGAGGTCTAGCCC
TCACCTTTTTTTTTCTTTTTTTCTTTTTTAATGGAGATCATTCTATACCAGCATGTAAGTAGCAAGGAACCTCA
TTCTTTTTTTGGCTGCCTAAAATTTTTTGAATAGATATAACATAATTGATTAAATCTGCTACTGGTGAATGCTT
AGGTTGTTCTTTTGTATTACAGTGATAACTTCAATCCTAATGTTATTAAGCATATCGATTACAGGGTATAGCTAT
AAGATGAAGTCCTAAAAGTATAATTTAGACTAAATACAAATACCCATTTTCGCTAGCTGTTTTGTTTCAGAGGACT
TGTTGAGCAGCTTCACTAATAATGCCATTTTGAAGACATGGCAGGTTCAGAATCAATAAACTGGAAGAATTGTT
CAGAGCATCTTTTTTCAGACAGTGATGACATTGATTCTGTATATGATAAAGTGATTCTGCTTCTCTTTGACAAC
TGATCTCTCCTACATGGAAGTAAGTTTTATTCCTGTCAATGTTGCTTTTGTGTGTGACAGATTAGGATTAAAT
ATGGTTTGACTTTTCTAGCAGCGTGATCATGGGCAAGTGGCTTATTTTTTTTTTTTTTTTGGAGACAGAGTCTC
ACTCTGCTGCCAGGCTGGAGTGCAAGTGGCAGTCTGGCTCACTGCAACTCCTGCCTCCCGGTCCAAGTGATT
CTCGTGCTGCAGCTTCTCAAGTAGCTGGCATCACCACCACACCTGGCTAATTTTGTATTTTGTAGTAACGACGAG
GTTTCACCATGTTGGCAAAGCTGGTCTCAAATTCCTGGCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGT
TGGGATTACAGGCGTGAGCCACTGCGCCCGGCTTTTTTAACTTTTAGATTCAATTAATAGGTAAATTGCATGTC
ACGGGTTTGTAGCTTATCTTTTCAAGAACTCTTGCAATTATCTGTAGACGTGGACGTAAATATCCACCTCATAGG
TTTTCATAAAAAATAATTGAGATAATGTATGTAATGTTTCACAGTGCTTTGCAGACTATCTAATAAATAGTAGCT
ATTAGTACAAA

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FIGURE 2430

CGCGGAGGAGAAGAGGAAGAGGAAGTTGGGGGAGGGTCTTAGCGGGGAGTGAACCGGAAGTGTAAGGTTTCCTGC
CTCTCCTCGGCCAGGCGGAACCTCTCTGCTGGGCCCGGTGGCCGCAAAAGAACTTTCTTTCTCCCGCCGAACGG
TCGCCGCGGCCAACTGCCTCGCCCGCTGGCAGCCTAACCCCTCCTTCTCTTCTCTCCTCTCCGGCTTCGCGCGG
CCCTGCCTCCCTCTCGCCCGGCGGCATCCGCTTGCTGCTGCCACCGCCTCCTCATCTTCTGCCCGGCAACCGGC
CTGCCCCGCTGCAGTGATGTGCGACAAGGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGA
CTATGTGGCCAAGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCATTATGCAGCAGATTG
TGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGATATTAATGCTCCAGATAAACATCATATTAC
TCCTCTTCTGTCTGCTGTCTATGAGGGTCATGTTTCCTGTGTGAAATTGCTTCTGTCAAAGGGTGCTGATAAGAC
TGTGAAAGGCCCAGATGGACTGACCGCCTTTGAAGCCACTGACAACCGGCAATCAAAGCTCTTCTCCAGTGATG
GATGGATGGACTGATAACTCCGGAAGAATGACTCTCCTGTGGCCTCACACTGCTGCCTGTCTGTCTGTCACTCTC
TATCTGCCAGCTTCTTCAGCTAAATACTTTAAGAGGGGTGAGGGGAGAGAGAAATTCATAACAAATCCGACTACC
AGAAAAAATAATGTTTTGGAGGAGGGGCAAAAGGAACCATGATCAGGCTTTTACTGGGATTCTGTATCAAGTA
AGCCTCTTCCCTTTCTAATAAAATATACACCTTATACCCAAGGGAGAGCAAGACAAAATACACCAGTAACATTT
GACCTTTTCAGCTCCCTAGCTAATTTATTAGATTGTGTTGAAGGTCTGATTCTACAAAGGCCAACTCTACATATT
TGGTAGCCCTAAGTGTCTGAGCAGTAGTGGCTGCTGTGATGTAAACTTAGGGTGCTGAGATAAGCAATTAGCTCT
AGCCTTCTGCCTTAAGAATGCACTCTACTGGGGATTTCTGGCATAGTTAAGAGCGCTGCCTATAAGGTTGGTGA
CCAAATCTTTCTCGGTGACTTTAAGCTTTATGTGAAAGCTTAGTTAAGGTGAGGAGGGGCACACTCCTAAATTG
CTGGAIGACTGAACTTTGGATTTTCTCTCCCTTTTACATGGATTTTCATGTCTCTTTAGATAAAACTGACTAGTT
TTATTTATAAAATCTTAAGTTTTGGAAGTCTAAAGGAGAAACCATTCCAGTATGCATATTTTTTCTCCTCTAGA
TTCATACATTTATATAGCATTGAAACACTTTCAAACCTCCTGCTGGTAGTAAAGGGGATTTAAAAATAGAATCAT
AGCCATAAGCCTGTTAGTATCATATGAAGAGAGAACAGTTATCTTAGTACCTATGGATTTTCTTTATTGCTGTT
TGAATGGATTGACCTTGGTTATGTGTTGAGAATTAAGGAACATTCTTTGAAATGCCTCTCTCAGACCCATCTTGG
AGGCTGATTACTTACTGCACCAAAGCTATCACTGGGGTGAGATTTACTGTTTGGACAAATTTAGCCCCATCCCTT
CAAAAATACACTTGTAAACCAGGTTTTCCAGAGTTGTTGATAGGCTTCTGCTGAACATATGCCAACCCACCTGCAT
AATATATTTTTGTTGCTTTTATAAATCATGCATTACATAAAGTGTGACAACCTCAAAATGTATTCTCTGTTCTTG
GAATACAGTGCCTAAATGGTGTCTTATGACCTGCAGAAAATATTTACACATAAATAAGCAATTGCAGTGTTT
TGCATGCAAAATATAAAAAATTTAAATTGCTCTGATTCTATTTTGTAATGGAGAAACAATCATATCTTTCTAAG
CGGTAATGGAGGAAGACTAGTGCTTTGTGCATTTTGATATATTTGAGTTCATTTTTCCACAATGCATACTTTT
GACGCAGTTGGGTTTCTCATAAGTATCCTAGTTTCATGTACATCCGAATGCTAAATAATACTGTGTTTTAAGTTTT
GTGTTGCAAGAACAATGGAATAAACTTGAATTGTGCT

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FIGURE 2431

MCDKEFMWALKNGDLDEVKDYVAKGEDVNRTLEGGRKPLHYAADCGQLEILEFLLLKGADINAPDKHHITPLLSA
VYEGHVSCVKLLLSKGADKTVKGPDGLTAFEATDNQAIKALLQ

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FIGURE 2432

ATGAGGCGGTTTTTCAGTAGTACAGAGGGTACTTTGTCATATTAGACCTTTTCTGGCTCTTTTAAACAAGGACGCTG
TTGCTTATTCCTAATAACAATGTCGTTCTCTGGCAGATTTCATAGTCCACCAGTCCAGCTCTGGCCCAAGATCTCCT
CTCACCATGATCCCAAGTTATTCTTTCCGGATATCATTAGGAAAGGACAGCGAATCATCCCTTTTCATCCTCTTC
CCATATGCCAACCCCTCACTCCCTCTTTTCTTATTTGCAATCAGAGAGGGAAGAATGCAGATCTGCCAAGTGCGT
TATAAATACTGTGAAACAAAAGGGACGCTCTGGGGCAGCGCAGGAGGGGTACAGTCCTACAAGGTGTCCACCTCT
GGCCCCCTGGGCCTTCAGCAGCCGCTCCTGCACGAGTGGGCCCTGTGCCCCGATGAGCTCCTCGAGCTTCTCCCGA
GTGGACAGCAGCAGCTTTCGGGGTGGCCTGGGCAGCGGCTATGAGGTGAACCCCAACATCCAGGCCGTGCGCATC
CAGGGGAAGGAGCAGATCAAGACCTCAACAAGAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAG
CAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGACGACTCGGAGCAACATGGACAACATG
TTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGAAGCACTCTTCTTTAAAAGTTTCTGA

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FIGURE 2433

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCTGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGGAAGCCCCATTG
CAGCCGCAACCCTGTCATTGTGAGAGGAATTGGCAGGTATTCCCGATCTGCTATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAGTTGGTGGTGACAAGAACGGCAGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCACGTGAGAAAACCTGCGAGCCAGCAT
TACCCCGGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGC
TAGTGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCTCTACGAAGAACACACCAGAAATTTGT
CATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAA
GAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATATGAGATTACGGA
GCAGTGCAAGATTGAGCAGAAAGCTGTGGACTCACAAATTTTACCAAAAATCAAAGCTATTCTCAGCTCCAGGG
CTACCTGTGATCTGTGGTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTTCTAAATGTCTTAAGAACT
TAATTAAATAGTTGACTAC

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FIGURE 2434

CAGGGCCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTGTTATTGC
AGAATTGTTCCCTGGGTTGGCCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTCCGTATATTTACAAACACA
GGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAACCTAGGTTTTTCAACCGTGACACGGACTCACC
ATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAAGAAGCAAGAAA
GTACATTTTCAACTGTTTAGATGATATGGCCCAGGTGAACATGACGACAGATTTGGAAGGGAGCGACATGTTGGT
AGAAAAGGCTGACCGGCGGGAGTTTCATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGAGAATCAC
TCCAATCGAAACCCTGAACCATCCCTTTGTCAACCATGACACACTTACTCGATTTTCCCCACAGCACACACGTCAA
ATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCAAAACCCC
TTTCATACGCACGTGGCCCCAGCACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCACTGTCCA
CAACCAGGCTCCCTCCTCTACCAGTGCCACTATTTTCCTTAGCCAATCCCGAAGTCTCCATACTAACTACCCATC
TACACTCTACCAGCCCTCAGCGGCATCCATGGCTGCACTGGCCAGCGGAGCATGCCCCCTGCAGACAGGAACAGC
CCAGATTTGTGCCC GGCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGACGGC
CTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAATGCAGTTCCCATCGTCACTCAAGCCCCAGGAGC
TCAGCCTCTTCAGATCCAACCAGGTCTGCTTGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTCC
CCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCAT
GGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGCA
GCCTGCACTATTGACCGGTCTATGTGACCTTCCAGCAGCACAGCCCTAAATGTGGGTGTGGCCACGTGATGCG
GCAGCAGCCAACCAGCACCACCTCCTCCCGGAAGAGTAAGCAGCACCAAGTCACTGTGAGAAATGTCTCCACCTG
TGAGGTGTCTCTCTCAGGCCATCAGCTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCTG
TGCCATGGTGACAGTAGCCCGGCTGCAGCACCTCGGTACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCAC
CCGGGAACGGCAGCGGCAGACAATTGTCTATCCCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCAG
TGACACGGACGAGGAGGAGGAACAGAAACAGCCCCCACCAGCACTGTCTCCAAGCAAGAAAAAACGTATCAG
CTGTGTCACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCTACTCCGTGCAGCAGCGTGC
TGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCGAACCAT
CATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTCAACACCAG
TCACCACTCGTCCTCTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCTC
ATCTGGAGCCATCACTACCGGCAGCAGCGGCCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCCA
GGCTCAGCAGCACATCACCACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCTACATCACTCCCACCATGGC
CCAGGCTCCGTACTCCTTCCCGCACAAAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTGC
CGCTGCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCCGGCGGCCCTGGGCTCCACCGGCACCGT
GGCCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCCA
CCAGGTCCCCGTGAGCATGGGCCCCCGGGTCTGCCCCGCCCCACCATCCACCCGAGTCAGTATCCAGCCCAATT
TGCCCCACAGACCTACATCAGCGCTCGCCAGCCTCCACCGTCTACACTGGATAACCACTGAGCCCCGCCAAGGT
CAACCAGTACCCTTACATATAAACTGAGGGGGAGGGAGGGAGGGAGGGAGGGAGAGAATGGCCCCGAGGGAGGA
GGGAGAGAAGGAGGGAGGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAAT
GCAAACGGGGCAGGGGCGGGGGGGGGGGGGGGGGGAGGGGAGGGGACGGGTGGGACACCAAGTGAACCTTGA
ACCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTAAAGGAAGGGATTAAAGAGGGTGGGAAATCT
ATGGTTTTTATTTTAAAAAA

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FIGURE 2435

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAGACATGAGTCCGAAACAACCTACCAGTTTG
GTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA
GGAAAAATCCAGTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA
CTGGGTGATGTCAGTCAAAAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGCCTCAGAGACGTGGCATAT
CAATATGTGAAAAAGGGGTCTCGAATTTATTGGAAAGGGAAAAATAGACTATGGTGAATACATGGATAAAAAATAAT
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG

AAAGGATGATTCTTCTTTGGCCATCATTGGTACAGTCTCATTTCCAAGTCATGTATAATCTTTATGGCTTCCAA
GGACAAGAATTAAAATACTCTTTTACGT

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FIGURE 2436

MFRRPVLQVLRQFVRHESETTSLVRLERSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSGDSEVYQL
GDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIIADNIIIFLSDQTKEKE

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FIGURE 2437

GACCAGCCGTGCAAATCTCTAGAAGATGACGGTGTTCCTTTAAACGCTTCGAAATCACTGGAAGAAACTACAGC
TGGGCTCTGCCTGCTGACCTGGGGAGGCCATTGGCTCTATGGAACACTGTGATAACCTCCTAAGGAGAGCAGC
CTGTCAAGAAGCTCAGGTGTTTGCAATCAACTCATTCCCTCCCAATGCACAAGTGAAGAAGGCCACTGTTTTCT
CAATCCTGCAGCTTGCAAAGGAAAAGCTAGGACTCTATTTGAAAAAATGCTGCCCCGATTTTACATTTATCTGG
CATGGATGTGACTATTGTTAAGACAGATTATGAGGGACAAGCCAAGAACTCCTGGAACTGATGGAACACCGGA
TGTGATCATTGTTGCAGGAGGAGATGGGACACTGCAGGAGGTTGTTACTGGTGTCTTCGACGAACAGATGAGGC
TACCTTCAGTAAGATTCCATTGATTATCCCCTGGGAGAGACCAGTAGTTTGAGTCATACCCTCTTTGCCGA
AAGTGGAAACAAAGTCCAACATATTACTGATGCCCACTTGCCATTGTGAAAGGAGAGACAGTTCCACTTGATGT
CTTGCAGATCAAGGGTGAAGGAACAGCCTGTATTGCAATGACCGGCTTCGATGGGGATCTTTTCAGAGATGC
TGGCGTCAAAGTTAGCAAGTACTGGTATCTTGGGCTCTAAAAATCAAAGCAGCCCACTTTTTTCAGCACTCTTAA
GGAGTGGCCTCAGACTCATCAAGCTCTATCTCATAACGGGACCTACAGAGAGACCTCCCAATGAACCAGAGGA
GACCCCTGTACAAAGGCCTTCTTTGTACAGGAGAATATTACGAAGGCTTGCCTCCTACTGGGCACAACCACAGGA
TGCCCTTTCCCAAGAGGTGAGCCCGGAGGTCTGGAAAGATGTGCAGCTGTCCACCATTGAACTGTCCATCACAAAC
ACGGAATAATCAGCTTGACCCGACAAGCAAAGAAGATTTTCTGAATATCTGCATTGAACCTGACACCATCAGCAA
AGGAGACTTTTATACTATAGGAAGTCGAAAGGTGAGAAACCCCAAGCTGCACGTGGAGGGCACGGAGTGTCTCCA
AGCCAGCCAGTGCACCTTTGCTTATCCCGGAGGGAGCAGGGGGCTCTTTTAGCATTGACAGTGAGGAGTATGAAGC
GATGCCTGTGGAGGTGAAACTGCTCCCCAGGAAGCTGCAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCT
CACAAGCCCCACCCAGTGAGCAGCAGAAGACAAGCACTCTGAGACCACACTTTAGGCCACCGGTGGGACCAAAAG
GGAACAGGTGCCTCAGCCATCCCAACAGTGTCTGTGAGGGTCCCCAGGGCATTTCATGGCAAGTACCCCTCTG
CCCCACTCCAGCAGTGCTTCCCAAGTGTGCTCTGTACCTGCTTTGCAATCGGCTTCCATTAGCGCATGTTTT
ATTTTGGTGTGACGGTTGGCCCTCTAAACACGGACTTTTCTCAGGCTGGTTCAAGACGGAAAAGGACTTTCTTC
TGTTTTCTTCCAAAGTGCAACCACAGTGGAGAGCCACGGTGGGCTTAGCCTGCCTAGGCCCTTCCATTCTCTT
CTTTGACCGTGCTAGGAATTCAGGAAAGTGCAATTCCTGCCCTGGTGACCTTTTCTATGTCTAGGCTCCTCCAC
AGGTGCTGCTATTTTGTGAGCTCCGGCTCCTGTTTAGCTTTTATTTTCACTTCTAACCTCAGTCCAGAAACATATG
TGAGGTTGTTTTCCCTCTTCAGCCACGGCTACAATACCGGAAAATGCTAGTTTTTATTTATTTTTTAAAGTAGTGC
TTCCTAAATGGTTTGATGAGAGCCACCTGGGGTACATGTTGAAAACCTATTGTTGGGTCTACCCCAAACCTAATA
ACCCAAATTTGGGGATGGGGCCAGGAATATGCATTTTAAAAAGTCATCTGCCCTTCCAGGTGATTCTGTAAAG
TTGTCCCTCAACTGTACTTGAGAAATCGTGTTTTAAAGCAGTAGTCCACAAAGTATTCTGCTCATGTGCCCCCA
AAAGTATTTTGA AAAATCATGTATACCCTACCCATCTAAGTTGATATCTAAAATTTTATCTAAGTTGGTATCTA
AAATTTTTTCATGGGAAGTTAAATAGTTGACAAAGTATGTATTGTCTGGTGTCTGTAAATATTGGTATTTTAAAA
TAAAAACTGTTACATCACTATTTTAAACATATCCAGTACAATTTAAATATCACAAATTTGACACCCTTCATTC
ATTTATAAAAATAAATGAGCTAGTTCTTTAGTAGTTAAACATTTCAAATTGGCTTTTCTCCTTCTGTATTTCCAT
ACCACTTTTCAGCCAAGAATCCTATCATAATGTAATCTATTATGCCCCGACATCTTTTAAATCATTACCCCCATTAC
TTCTTGTCAACAAAAATATAAATGGAAATTTTTTTTTTAGCTCTTGCTTAAAGTGTGTTTGTATCTCAGTC
CAGAACCAATATTATCGTAATTAATTATTGGTATATAATGAAAACGGTATTAATTCTTGGATGATTAAAGTTTT
TTTATTAGAATGTTCTTTATCCTAATTAGTTCATTTATCCAAGAATACATGAATGTGATTACAGCTGAGATGGG
GTTCAACCTCAGCTGATTCTTGTCTGTATAGATGTAAGCACATAAATTCGATGGAATAGAATTACGTTAAC
AATGAAAAAAAAAAAAAA

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FIGURE 2438

MTVFFKTLRNHWKKT TAGLCLLTWGGHWLYGKHCDNLLRRAACQEAQVFGNQLIPPNAQVKKATVFLNPAACKGK
ARTLFEKNAAPILHLSGMDVTIVKTDYEGQAKKLELEMENTDVIIIVAGGDGTLQEVVTGVLRRRTDEATFSKIPIG
FIPLGETSSLSHTLFAESGNKVQHITDATALIVKGETVPLDVLQIKGEKEQPVFAMTGLRWGSFRDAGVKVSKYW
YLGPLKIKAAHFFSTLKEWPQTHQASISYTGPTERPPNEPEETPVQRPSLYRRILRRRLASYWAQPQDALSQEVSP
EVWKDVQLSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSRKVRNPKLHVEGTECLQASQCTLLI
PEGAGGSFSIDSEYEAMPVEVKLLPRKLQFFCDPRKREQMLTSPTQ

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FIGURE 2439

CGCCTCCCTTCCCCCTCCCCGCCGACAGCGGCCGCTCGGGCCCCGGCTCTCGGTTATAAGATGGCGGCGCTGAG
CGGTGGCGGTGGTGGCGGCGCGGAGCCGGGCCAGGCTCTGTTCAACGGGGACATGGAGCCCAGGCGCGGCGCGG
CGCCGGCGCCGCGGCTCTTCGGCTGCGGACCCTGCCATTCCGGAGGAGGTGTGGAATATCAAACAAATGATTAA
GTTGACACAGGAACATATAGAGGCCCTATTGGACAAATTTGGTGGGGAGCATAATCCACCATCAATATATCTGGA
GGCCTATGAAGAATACACCAGCAAGCTAGATGCACTCCAACAAAGAGAACAACAGTTATTGGAATCTCTGGGGAA
CGGAAGTGATTTTTCTGTTTCTAGCTCTGCATCAATGGATACCGTTACATCTTCTTCTCTCTAGCCTTTCAGT
GCTACCTTCATCTCTTTCAGTTTTTCAAAATCCACAGATGTGGCACGGAGCAACCCCAAGTCACCACAAAACC
TATCGTTAGAGTCTTCTGCCCCAACAAACAGAGGACAGTGGTACCTGCAAGGTGTGGAGTTACAGTCCGAGACAG
TCTAAAGAAAGCACTGATGATGAGAGGTCTAATCCAGAGTGCTGTGCTGTTTACAGAATTCAGGATGGAGAGAA
GAAACCAATTGGTTGGGACACTGATATTTCTGGCTTACTGGAGAAGAATTGCATGTGGAAGTGTGGAGAATGT
TCCACTTACAACACACAACCTTTGTACGAAAAACGTTTTTACCTTAGCATTTTGTGACTTTTGTGCGAAAGCTGCT
TTTCCAGGGTTTCCGCTGTCAAACATGTGGTTATAAATTTACCAGCGTTGTAGTACAGAAGTTCCACTGATGTG
TGTTAATTATGACCAACTTGATTGCTGTTTGTCTCCAAGTTCTTTGAACACCACCCCAATACCACAGGAAGAGGC
GTCCTTAGCAGAGACTGCCCTAACATCTGGATCATCCCTTCCGCACCCGCTCGGACTCTATTGGGCCCCAAAT
TCTCACCAGTCCGCTCTCCTTCAAAATCCATTCCAATTCACAGCCCTTCCGACCAGCAGATGAAGATCATCGAAA
TCAATTTGGGCAACGAGACCGATCCTCATCAGCTCCAATGTGCATATAAACACAATAGAACCTGTCAATATTGA
TGACTTGATTAGAGACCAAGGATTTTCGTGGTGATGGAGGATCAACCACAGGTTTGTCTGTACCCCCCTGCTC
ATTACCTGGCTCACTAACTAACGTGAAAGCCTTACAGAAATCTCCAGGACCTCAGCGAGAAAGGAAGTCATCTTC
ATCCTCAGAAAGACAGGAATCGAATGAAAACACTTGGTAGACGGGACTCGAGTGATGATTGGGAGATTCTGATGG
GCAGATTACAGTGGGACAAAGAATTGGATCTGGATCATTGGAACAGTCTACAAGGGAAGTGGCATGGTGTATGT
GGCAGTGAAAATGTTGAATGTGACAGCACCTACACCTCAGCAGTTACAAGCCTTCAAAAATGAAGTAGGAGTACT
CAGGAAAACACGACATGTGAATATCCTACTCTTCATGGGCTATTCCACAAAGCCACAACCTGGCTATTGTTACCCA
GTGGTGTGAGGGCTCCAGCTTGATCACCATCTCCATATCATTGAGACCAAATTTGAGATGATCAAACCTTATAGA
TATTGCACGACAGACTGCACAGGCGATGGATTACTTACACGCCAAGTCAATCATCCACAGAGACCTCAAGAGTAA
TAATATATTTCTTCATGAAGACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAGTGAAATCTCGATGGAG
TGGGTCCCATCAGTTTGAACAGTTGTCTGGATCCATTTTGTGGATGGCACCAGAAGTCATCAGAATGCAAGATAA
AAATCCATACAGCTTTTCAGTCAGATGTATATGCATTGGAATTGTTCTGTATGAATTGATGACTGGACAGTTACC
TTATTCAAACATCAACAACAGGGACCAGATAATTTTATGGTGGGACCAGGATACCTGTCTCCAGATCTCAGTAA
GGTACGGAGTAACTGTCCAAAAGCCATGAAGAGATTAATGGCAGAGTGCCTCAAAAAGAAAAGAGATGAGAGACC
ACTCTTTCCCCAAATTCTCGCTCTATTGAGCTGCTGGCCCGCTCATTGCCAAAATTCACCGCAGTGCATCAGA
ACCCTCCTTGAATCGGGCTGGTTTCCAAACAGAGGATTTTAGTCTATATGCTTGTGCTTCTCCAAAACACCCAT
CCAGGCAGGGGATATGGTGCCTTCTGTCCACTGAAACAAATGAGTGAGAGAGTTCCAGGAGAGTAGCAACAAA
AGGAAAATAAATGAACATATGTTTGCTTATATGTTAAATTGAATAAAATACTCTCTTTTTTTTAAAGTG

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FIGURE 2440

GGCACGAGGGTGTCCCTCCCCGCCCCGGCTGGAGGCTGCTCCGGACCGGGACGCAGAGTCTGCGGACCCGGCGCCG
AGGCGGCCACCCGAGACGCGGCGCGCACGCTCCGGCCTGCGCAGCCC~~GGCCG~~ATGCGGCCCCCCCGCCCCGT
CTCCCGCATCTCCGTTTCGGTCTCGGCTCCGGCTTTTTACGCCCCGAGAAGAAGTTCGGCCCTGTGGTGGCCC
CAAAGCCCAAAGTGAATCCCTTCCGGCCCGGGGACAGCGAGCCTCCCCGGCACCCGGGGCCCAGCGCGCACAGA
TGGGCCGGGTGGGCGAGATTCCCCGCGCCCCCGGAAGACTTTCCCTGCCTCCACCTCCCCTTGCTGGGGATG
GCGACGATGCAGAGGGTGTCTGGGAGGTGCCTTCCGCGCGCCCCCTCCCCGATCGAGGAATCATTTCCCCCTG
CGCTCTGGAGGAGGAGATCTTCCCTTCCCCGCGCCTCTCCGGAGGAGGAGGGAGGGCCTGAGGCCCCCATA
CGCCCCACACAGCCAGGGAGAAGGTGAGCAGTATTGATTGGAGATCGACTCTCTGTCTCACTGCTGGATG
ACATGACCAAGAATGATCCTTTCAAAGCCCGGGTGTCTGATATGTGCCCCACCACTGGCCACTCCATTCA
GTTCCAAGTCCAGTACCAAGCCTGCAGCCGGGGGCACAGCACCCCTGCCTCCTTGAAGTCCCCCTCCAGCTCCC
AGCCTCTGCCCCAGGTTCCGGCTCCGGCTCAGAGCCAGACAGTTCCATGTTTCAGCCCCAGCCCCAGCCCAAGC
CTCAGGTCCAACCTCATGTCCAGTCCCAGACCCAGCCTGTGTCTTTGGCTAACACCCAGCCCCAGGGCCCCCAG
CCTCATCTCCGGCTCCAGCCCCTAAGTTTCTCCAGTGACTCCTAAGTTTACTCCTGTGGCTTCCAAGTTTCAGTC
CTGGAGCCCCAGGTGGATCTGGGTACAAACCAATCAAAATTGGGGCACCCGAAGCTCTTTCTGCTGGCACAG
GCTCCCCCTCAACCTCCCAGCTTACCTATGCCAGCAGAGGGAGAAGCCCCGAGTGCAGGAGAAGCAGCACCCCG
TGCCCCACCGGCTCAGAACCAAAACCAGGTGCGCTCCCCTGGGGCCCCAGGGCCCCCTGACTCTGAAGGAGGTGG
AGGAGCTGGAGCAGCTGACCCAGCAGCTAATGCAGGACATGGAGCATCCTCAGAGGCAGAATGTGGCTGTCAACG
AACTCTGCGGCCGATGCCATCAACCCCTGGCCCGGGCGCAGCCAGCCGTCCGCGCTCTAGGGCAGCTGTTCCACA
TCGCTTGCTTACCTGCCACCACTGTGCGCAGCAGCTCCAGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGT
ACTGCGAGGGGTGTTACACTGACACCCTGGAGAAGTGTAACACCTGCGGGGAGCCCATCACTGACCGCATGTGA
GGGCCACGGGCAAGGCCTATCACCCGCACTGCTTACCTGTGTGGTCTGCGCCCGCCCCCTGGAGGGCACCTCCT
TCATCGTGGACCAGGCCAACCGGCCCTGTGTCCCGACTACCACAAGCAGTACGCCCCGAGGTGCTCCGTCT
GCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGACTGTGCGAGTGGTCGCCCTGGACAAGAACTTCCACA
TGAAGTGTTACAAGTGTGAGGACTGCGGGAAGCCCCGTGTCGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGG
ACGGTCACGTGCTCTGTGGAAGTGCCACACTGCTAGAGCCAGACCTGAGTGAGGACAGGCCCTCTTCAGACCG
CAGTCCATGCCCCATTGTGGACACCCACACTGAGACACCTGCCCCACCTCAGTTATTGTTTTGATGTCTAGC
CCCTCCCATTTCACCCCTCCCTAGCATCCCAGGTGCCCTGACCCAGGACCCAACATGGTCTAGGGATGCAGGA
TCCCCGCCCTGGGGTCTGGTCCTCGCCATCCTGCAGGGATTGCCACCGTCTTCCAGACACCCACCTGAGGGG
GGCACCAGGTTTAGTGCTGCTGCTTTACTGCTGCACCCGCGCCCTCGGCCGGCCCCCGAGCAGCCTTTGTACT
CTGCTTGGCGAGGGCTGGGAGACCCTCCAGGACATTCCACCCCTCCCCATGCTGCCAAGTTGTAGCTATAGCTA
CAAATAAAAAAAAAACCTTGTTTTCCAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2441

MAAPRPSPAISVSVSAPAFYAPQKKFGPVVAPKPKVNPFRPGDSEPPAPGAQRAQMGRVGEIPPPPPEDFPLPP
PPLAGDGDDAEGALGGAFPPPPPIEESFPPAPLEEEIFPSPPPPPEEEGGPEAPIPPPPQPREKVSSIDLEIDS
LSSLDDMTKNDPFKARVSSGYVPPPVATPFSKSSSTKPAAGGTAPLPPWKSPSSSQPLPQVPAPAQSQTQFHVQ
PQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAPKFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPE
ALSAGTGSPQPPSFTYAQQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGPLTLKEVEELEQLTQQLMQDMEHPQR
QNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQLOGQQFYSLGAPYCEGCTDTLEKNTCGEP
ITDRMLRATGKAYHPHCFTCVVCARPLEGTSFIVDQANRPHCVDPYHKQYAPRCSVCSEPIMPEPGRDETIVRVVA
LDKNFHMKCYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARAQT

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FIGURE 2442

GGCACGAGGGGCGGCGGAGCCGACTCGTTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGCTCAGTCTGGGATTGG
CCGGCCCGGCGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACCATGAGGCCCCGGAAGCCTTCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCCGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCTTAAATGATG
CAAACCTTTGATAATTTTGTGGCTGACAAAGACACAGTGTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGTCTCCGAATATGAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGCCCAGCAGGTTTGATGTGAGTGGCTA'CCCCACCATCAAGATCCTTAAGA
AGGGGACGGCTGTAGACTACGAGGGCTCCAGA'CCCCAGGAAGAAATTGTTGCCAAGGTGAGAGAAGTCTCCAGC
CCGACTGGACGCCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAAACTTGCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCCTCCAATTCCCTGGCAAAGGTGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCACCCCTGAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCTGAAGC
AGGTCCAGGAGTTCCTGAAGGATGGAGACGATGTATCATCATCGGGTCTTTAAGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACACCTGAGAGAAGATTACAAATTTACCCACACTTTCAGCACAGAAATAG
CAAAGTTCTTGAAAGTCTCCCAGGGGCGAGTTGGTTGTAATGCAGCCTGAGAAATTCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACC'GCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAACTGAAGCCAGTCATCAAATCCAGCCAGTGC
CCAAGAAACAACAAGGGACCCGTCAAGGTCGTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCTCATCGAGTTCTACGCACCATGGTGC'GGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCAGTGGGGACAAAAGA'ACCCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGACATGCCACAAA'CTGAGCAGGACCAAGGAAGAGC
TTTGAAGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTCCGGGGCGTCCACGCC
GAGGCCGGCAACAAACGACAGTATCTCGGATTCTTTTTTTTTTTTTTTTAAATTTTATACTTTGGTGTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTACACCTTCTAATTTCTTTATTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTAAATTAAGGTTTAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCGTTGTCTGAGAAATGTTGGCGTAGATTTGGCTTCTGGTATGTGTTCTGATTGCTTCCGTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTT'CAGGCTGGGCATCGCCAGGGCGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAA'AAAAAA
AAAAA

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FIGURE 2443

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKQAVD
YEGSRTQEEIVAKREVVSQPDWTPPPEVTLVLTKENFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL
KDGDDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQQLVVMQPEKFQSKYEPRSHMD
VQGSTQDSAIKDFVLKYALPLVGHKVSNDKRYTRRPLVVVYYSVDFSFDYRAATQFWRSKVLEVAKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAAILDESGKKFAMEPEEFDSDLREFVTAFKKGKLKPVKSQVPKNNKG
PVKVVVGKTFDSIVMDPKKDVLIIEFYAPWCGHCKQLEPVYNSLAKKYGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

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FIGURE 2444A

GCCGCCGAAGGGGACTGTTTGCTCCTACGGGCTGTAGATGGAGCTGTCCGGCCCCGGAGAGGGGGAAGGCGCCTG
GAAAACGTTTCTTCTTCTCCCTGGCCGACCCGAGCGGGGAACAGCACTCCCAGGATGCAGTTTGTGTCAACACGGC
CGCAGCCTCAGCAGCTGGGCATCCAGGGCCTGGGGCTGGACAGCGGGAGCTGGAGCTGGGCCCAGGCTCTGCCCC
CGGAGGAGGTCTGCCACCAGGAGCCGGCGCTGCGCGGGGAAATGGCCGAGGGAATGCCGCCATGCAGGCTCAAG
AATGGGACATGGACGCCCGGCGGCCAATGCCTTTTTCAGTTCCCAACCCTTTCCAGATAGGGCACCTGTCTTCCCCG
ACCGCATGATGCGAGAGCCCCAGTTGCCACAGCAGAGATCTCACTCTGGACTGTGGTGGCTGCCATTACGGCTG
TGGAGAGGAAGGTGGATGCCCAGGCCAGCCAGCTGCTGAACCTGGAGGGGCGCACGGGGACAGCCGAGAAGAAGC
TGGCCGACTGTGAAAAGACGGCCGTGGAATTTGGGAACCACATGGAGAGCAAGTGGGCCGTGTGGGGACCCCTGC
TGCAGGAGTACGGGCTGCTGCAGAGGCGGCTGGAGAACTTGGAGAACTTGTGCGCAACAGGAACCTCTGGGTCC
TGCGGCTGCCCCCGGGCAGCAAGGGGGAGGCCCCAAGGTTCCAGTGACTTTTGTGACATTGCTGTGTACTTCT
CCGAAGACGAGTGAAGAAGCTTGGACGAATGGCAGAAGGAGCTTTATAACAACCTTGTTAAGGAGAACTACAAAA
CCCTCATGTCCCTGGACGCGGAGGGCTCAGTCCCCAAGCCAGATGCTCCAGTCCAGGCTGAGCCCAGGGAAGAAC
CTTGTTGTGTGGGAGCAGCGCCACCCGAAGAGAGAGAAATCCCAATGGATCCCGAAGCAGGAGCAGAGCCCCCTGG
TGCTGCGCAGGATGCGTCTCTCCAGGTGAAGCGTGAGGACACCCTGTGTGTCCGGGTCAGCGGGGCTGGAGG
AAAGAGCCATCCCTACGGAATCCATTACCGACTCCCCAATTTTGTGCCAGGACCTCTGTCTCCGGATTAAACAGG
AGGAGCATCAGTGCGTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCACGGATCCCAATTCAGAGTCTC
TCATCTCAGCACATGACATTTTGTATGGATCAAGCAGGAGGAGCAGCCATACCCATGGGGACCACGCGACTCAA
TGGACGGAGAGCTTGGATTAGACTCTGGCCCTAGTGACAGCCTGCTGATGGTGAAGAACCACCCCGGGCCCCGC
CACAGCCCCAGCCCCAGCCCCAGCCACCGCAGCCGAGCTGCACTGCGAGCCCCAGCCCCAGAGCCTGCCCCCA
TCGCGGTGGCCGAGAACC CGGGCGGCCCCCGAGCCGAGGGCTGCTGGACGACGGTTTCCAGGTGCTGCCCCGGG
AGCGTGGCTCCGGCAGGCGCGCGCGGGTGGGGACCGCAGCACCGGGGGCGGCGGGGGCGATGGGGGCGGTGGG
GCGGCGGCGCGGAGGCGGGGACGGGGGCGAGCGGCGGCTGTGGCAGCTGCTGCCCTGGCGGGCTGCGGCGGAGCC
TCCTCTGACAGGCGCCCGCAGCAAGCCCTACTCGTGCCCCGAGTGCGGCAAGAGCTTCGGCGTGCGCAAGAGCC
TCATCATCCACCACCGCAGCCACACCAAGGAGCGGCCCTACGAGTGCGCTGAGTGCGAGAAGAGCTTCAACTGCC
ACTCGGGCCTCATCCGCCACCAGATGACGCACCGCGGCGAGCGGCCCTACAAGTGCTCGGAGTGCGAGAAGAGCT
ACAGCCGTAAGGAGCACCTGCAGAACACCAGCGGCTGCACACGGGCGAGCGGCCTTCCAATGTGCTGTGCG
GCAAGAGCTTCATCCGCAAGCAGAACCTGTCAAGCACCAGCGCATCCACACGGGCGAGCGGCCCTACAGTGCG
GCGAGTGCGGCAAGAGCTTCGCTACAAGGAGTGCCTCAAGGACCACTGCGCGTGACAGCGGCGGCGGGGCC
CCGGCGCCCCACGGCAGCTCCCGCCGCTCTCTGAGCGAGACTAGGGCTGGGCTGGGGGAGGGGAGGGCCGACGG
AGTGGATCGGGGGCGGCTGAGCACCAACCACCTTGCCGGGTGCTCTCAGCCACCGTCTGGAATCGGCAACAGG
CATTGCACTCCGGTTGGGGGTCCCCAGGGTGGGGCAGGGATCCCCAGATCTGTCTGGTCTGAATGGACGCCCAG
CTCATCTAGGGTGGACCCAGCTGCTGGGGAAGAGCCAGGGGGACCGGAGGAGCCGAGCGTCTCGGGCACC GCC
CTCACACCTCCTCGAGTGCCCTGGGACCACTGGGCCACAGATGGTCATCAGGGGAAGCCACCAGGGAGTCCCGAA
GCCCTTCTGAGATCAGGAAATCAGGTCCCAAGGTTAGGAGACGCCCTGAAAAAAGCGAAGGCCGAGGGATGTGC
TAAGGGTAACACCTTCATGATGACAACACTGCTCGCGTTTCAATAGCGCTTTTATACTTTTTTAAGTGTCTTA
TCCGTTATCCATTTACCCCTTGGCCTATCCCTCTCAGATAGGTGGGGTAGGATTTTCTGGTGACCGAGTAAAGT
GAGAGGCAGGTGAGACGGTTCACCCAATCACACGGGAAGGGGCGCGCTGCCCAACCGCGCTCTCCGCTACCT
CCGCTGCTCGGGAAGCTGCTGGCCTGGCCCTCCTGGTCTCTCTTCTTCTTCTGGTCTCTCTTCTTCTTCTGCTC
TCACCCACGGATAAAACAGAGAAGCGACAGGAGGCCAGCTCCTGGGGTTCTGGGAGCCGGGAACAGATTGGCTAC
GGAACGCCCCAGGTTGTACATTAGAGGGCTCTTCTCCATGGGAGCTCCTGGTGCCGCTCGGCCCCAGCCTGT
CCCCAGCCCTCAATCTGGTGCAGCAGCATCTTGTCACTGCACAACAGTGGCCTGGTCCCCACAGGCAGTTAGG
GCCCCAGGTGAGACCTCACCATGATGATTGTTCAGTTCTCCAGGGCAGAGGGGCGAGGGAGAGGCTTTTGT
GTGAGAGTAGCCGTACGTGTCTCTTCCAGCAGCGCCGGGAAGTGGGTGCTAGAGTCTGAGCCTCAGGCTCTC
CTGCCCTGGGCTCCCAATTGGTGCTATCTGTACTGCGCGTGTACCGACATGGATACAGACCCTGCTGTGCT
CCACACCCTGAGGCGCCTCGGGAAGCGCCCAAAGGATTCCCTTCACGTTGGTGCACCTGCTCCATAGCTCCGG
GCGCTGCGTCCCGAGGGGCCACAGTCTCAATTTACGCGTCTTGCATGGCCTGGCACCGGGTGGGGTGGTATGCC
CAGGACCCTTGTGTGTAATAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCTCTCCAGCCGGGATCA
CAGTGGGCAGCCGGCACCCGGCACCACTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCG

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FIGURE 2444B

CTTTCCTCAGACCCCTTTTTGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGC
ATGTTACAGAGCTGGGGGTTCTCCAGCTTGCCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2445

MQFVSTRPQPQQLGIQGLGLDSGSWSWAQALPPEEVCHQEPALRGEMAEGMPPMQAQEWMDARRPMPFQFPPFP
DRAPVFPDRMMREPQLPTAEISLWTVVAAIQAVERKVDAQASQLLNLEGRGTAEKKLADCEKTAVEFGNHMESK
WAVLGTLQLQYGLLQRRLENLENLLRNRNFWVLRLPPGSKGEAPKVPVTFVDIAVYFSEDEWKNLDEWQKELYNN
LVKENYKTLMSLDAEGSVKPDAPVQAEPREPCVWEQRHPEEREIPMDPEAGAEPLVPAQDASSQVKREDTLCV
RGQRGLEERAIPTESITDSPISAQDLLSRIKQEEHQCVWDQQDLADRDIPDNPSESLISAHDILSWIKQEEQPY
PWGPRDSMDGELGLDSGPSDSLMLVKNPPAPPQPQPQPQPQPQLQSQPQPSLPPPIAVAENPGGPPSRGLLDD
GFQVLPGERGSGEAPPGGDRSTGGGGGDDGGGGGGGAEAGTGAGGGCGSCCPGGLRRSLLLHGARSKPYSCECGK
SFGVRKSLIIHRSHTKERPYECAECEKSFNCHSGLIRHQMTHRGERPYKCSECEKTYSRKEHLQNHQRLHTGER
PFQCALCGKSFIRKQNLKQRIHTGERPYTCGECGKSFRYKESLKDHLRVHSGGPGPGAPRQLPPPPERD

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FIGURE 2446

TCTTGTCCCGGATTAAACAGGAGGAGCATCAGTGCCTGTGGGATCAGCAGGATTGGCAGACAGAGATATTCCCA
CGGATCCCTCGGGAAGCGCCCAAAGGATTCCCCITCACGTTGGTGACCTGCTCCATAGCTCCGGGCGCTGCGTC
CCGAGGGGCCACAGTCTCCATTTACGCGTCTTGATGGCCTGGCACCGGGTGGGGTGGTATGCCCCAGGACCCTT
GTTTGTGTCAAAAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCCCTCCAGCCGGGATCACAGTGGGCAG
CCGGCACCCGGCACCCTTTGGCGAGCGTCCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCGCTTTCCTCAG
ACCCCTTTTTGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGCATGTTTCACAG
AGCTGGGGGTTCTCCAGCTTGCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2447

AGTGCCTGCGCTTCTTCCAGCAGCGCAAGAGCCTGCTGCTGCACCAGCGCCTGCACACCGGCAATGGCCAGGGCT
GGCCCGCCTGCCCCCTACTGCGGCAAGGCCTTCCGCCGGCCCTCGGACCTCTTCCGGCACCAGCGCATCCACACCG
GTGAGCGGGCCCTACCACTGCCCCCAGTGTGGCCGGACCTTCAACCGCAACCACCACCTGGCCCTGCACATGCAGA
CCCACGCCCCGAGGCCAGGTGGGCCCACACTTCCCTGCCGCCCGCCCGCCACGGGAGCCTGCCCTGCCCCTGGC
CCAGCCGGAAGGAGGAGGGCTGACCTGGCAGGAGCCACAGAGGACCCCTGGCGGGGTCTCTCCCTGTGCCTGA

CGCAGGTTCTTCCTTTTCTGGGATGGAGAGAGGTTTGTGTTTTTACCCATTCAAATGGGAAGCTAGCTGCCCT
TCTGGTGACATTGTGTGTGACCGGTGCTTCTGTTTTCTGTTTGCACTCTTCGCTGCCTTTTCTGCATTCTCTGA
CTTCTAAAAGATGCCTTAAGGCTTAAGGGATGCCATATTTTTGATAAGGCCTCTGGTAGGTACCACAGCCAAGAG
GACCAGAGATCATGGCCCTTCCAGTATGGGGCGATAGAGACATCGGGGACCTGGGATTTTTGTTTTGTGTCAGAG
ATCTCTGCCTGCTGTCAACCATGAGAAACAGTGGAGTGGAGTGGATGGATGGCTGACTTGAAGAAAGGGCCCTG
GAAAGTTTTCTACTTTGCTATTTTGAAATTTTTTCCCTTCTTATAGAGACTTTGAAATACTTTTGTAAATGTGT
GTAGTTGTTAATGGAACCTTGCCCTTTTGCAAAGTCGGAAGAGTCGGCTTTTCCATGTGAGGCTCGCAGAGCTGA
AAGGGGAGCTACGTCCACCAGCCTGTGGGTCTTTTGGTTTTTTTTTGTGTTGTTGTTGTTTTTTAAGATGGA
GTTTCACTCTTGTGTCAGGCTGGAGTGAATGGTACAATCTCCGCTCACTGCAACCTCCGCTCTCGGGTTCA
GGTGATTCTCCTGCCTCAGCCICCTGAGTAGCTGGGATTACAGGCGCCACCACCCTCCCGGCTAATTTTTGTA
TTTTTAGTAGAGACAGGGTTTCATCATGTTGTCCAGACTGCTCTGAACCTCTGATGTTAGGTGACCCGCACACC
TCGGCTCCTGAAGTGCTGGGATTACAGGCGTGAGCCACCCTCTTGGCCAGCCTGTGGGTTTTGATGGGGATG
TCTTGGCTGCTGTCTTGGAGGCACAGTGTCTCCCCATGTGTGTGTTTCTTGGCCAGAGTGACTCCCACTATTCC
TAGTCTTCCCCACAGGATAGTCACATCCATTATTTACTTTTGTGTGCTAGCTGGGAGGGGAACTGAAGCCTGGA
CACGTCTCCCCAAGGGCTCAGTGTTTATGGGTGTGTAAGATCCATTGACTGGACCCAGAAAGCACCCCTGAGGGG
CAGTGCAGAGAGAGCCAGGAAGCCCTCCACTAGAGGAGGCCCTTGGTCTGGCTGAGGACCAGTCCACCCTGG
GCCTCCAGGCCTGCTTTTACATTAAAGGCGGGGCAGTCTCCTCTCAAAGGAGTTCTCCCTTGAGCACTTTGGGC
TCTGGGCGAGAGTTGGGCTAGGAGATCTGGGTGAATCCTTTAGTCACAGCTAGTCTCATGTTCTCTTCTGTCAA
AGGGGTCATGGCCCCAGTGTGCTTACCTCAGAGTTGTGAGGGTCAAAGTAACAGGCACTGGGACAAATATGAAG
CCTAGCTTTGTGCTTCTTTCAAATTCAGGGCCTCCTTTCTACTCCATTCCAGCCTTTTTTCTGTGCAATCC
CTCAGGAAGGACCTTTATCTTCTGGAGTGAGTGGCAGTTCCACTGGGTTCAGTGAAAGAGTCGCCCATGGGGCTC
TGTTCCCCAGGAGTCCTTTGTATTTTGGTGAAACAAATCTTACCAAAGCATGAGATTGGGACTGTAGAAGTTTCA
ACTGCCTCAGTTCAGACTGCCTCATGGGGCAGTCTGGAGGTCAGTGGCTTCTGGTGTCTCTCATCACACCACTG
CGGACGCTGTCTGTAGAGCAGCCTTGGTGTGGGTGACTCTGAAGCTGGAGTGATGGGACCCAGCTATCCTTGTT
TTTTACCGCCTTGTCTGGCACTGTGACCACGCTTCAGGGCTGCTTCTGGGGGTCTTGGTCCCTGGATGTGCCATT
TCCTTGCCCTTCTGACCTCACAATTCTTCCAAAGTCTTGAGCAGAGTTGGGGCCAATGGTAGCATTGCTGTCA
TCTCTGGGAGGAGAGTGAGTATACAAGTCAGTGACAGTTACGCCAGGCTCCCTTGGGTTTGGGAAGAGGCACTGC
CCTTCTGTGCTGTGGATCCTGCTTGTCTGCTCTGGAGTCCCCCACCCTTGCCAGGAGCTTCACAAACCAGAGAC
GGGCTGTACAGCAAGAGCTCAGACAGGATGTGGTGCAAGTGCAGGTGCACGAGTTTAAACCCTCAGTGCAGGAGCT
AGTCTCAGGTGTTCTGGGGATGCCTCAGGCTAAGAATTTTCCGACTTTCTGGGCTTGGTTGGCTAATGCCAAAT
GCCCCTGCTTAAATATACAAGGTGCTGATTCTCCTTTTTTCTTTTTTTCATACCAATGTGCTCAAACCTTGAGC
TAGGTCTTGTGAGTTTGCCTAGCACTCAGACCTGTTAAGTAACGTTCTTTACATTGAAACAAGTCAACCGAAGC
TTTGTGGTGCAGGAGCTGAGGGTGCCCCAGACTCAGTGGGAGCCCTGGTTGGGCCCCAACTCTCCAGCAGGGT
CCTCGGTTTCTCATTTGTGAAATAAATGAGTGGGCCACAGCTTAATAAGCCCAAGAGAAGTGTGAAGGTGTA
GTCCCTTGCCCTAATTGGTGCTCAATAAAGTTGTGGCAT

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FIGURE 2448

MARAGPPAPTAARPSAGPRISSGTSASTPVSGPTSAPSVAGPSTATTTWPCTCRPTPEARWAHTSLPPPPATGAC
PCPGPAGRRRADLAGAHRGPLAGSLPCA

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FIGURE 2449

GCACGAGGCCAGCTTGGCCAGTGGCTCCGCAGGCTGCCGGCTCCACCCCTCAGGGACTGGCTGGCTTCGAGCAGG
GCATCGGAACCAGGCCTCCTGGCACTGGCCTGGGTAGAGCCAGGGCGAGCACCAGCTGACCCCACTGGAAACCT
GTGACAGTCCTGCCAGGGCCCAGGCCATCCCAACCGACTTCCATCTCATGGACCCTCCAGCGGAGAAGCCGGGAG
AGGCTGGCGGACTGCAGATCACACCCCAGCTGCTGAAGTCACGCACAGGCGAGTTCTCCCTGGAGTCCATCCTGC
TACTGAAGCTGCGTGGCTTGGGACTGGCTGACCTGGGCTGCCTGGGAGAGTGCCTGGGCCTGGAGTGGCTGGACC
TATCAGGCAACGCGCTCACCCACCTGGGCCCGCTGGCCTCCTTGCGCCAGCTAGCTGTGCTCAATGTCTCCAACA
ATCGGCTGACGGGCTGGAGCCACTGGCCACCTGTGAGAACTGCAGAGTCTCAATGCCGCAGGCAACCTACTGG
CCACCCCGGGCCAGCTGCAGTGTCTGGCTGGGCTACCGTGCCTGGAGTACCTGCGGCTCCGAGACCCCTTGGCCC
GGCTCAGCAACCCGCTCTGTGCCAACCCCTCCTACTGGGCTGCAGTCCGGGAGCTGCTGCCTGGCCTGAAAGTCA
TCGACGGTGAGCGTGTGATTGGGCGTGGTAGTGAGTTCTACCAGCTGTGCCGAGACCTGGACAGCTCCTTGCCTC
CCAGCTCCAGTCCAGGCCCCAGAGCCACCGAGGCCAGCCCTGGGTGGAGCCAGGCTACTGGGAGTCCCTGGCCCA
GCCGGAGCAGCTCCATCCTGGAGGAGGCCTGCCGGCAGTTCCAGGACACACTGCAGGAGTGTGGGACCTGGACC
GCCAGGCCAGCGACAGCCTGGCCCAGGCGGAGCAGGTACTCAGCTCTGCGGGCCCCACCTCTTCCTTCGTCTTCT
GAACGTGGCCTATGGCCCAGGACAGCCTGGCAGGTGGCCTCGCTGCCCCCAGTTCCCTCTCTGCCCCCAGCTC
GTCTTAGTTGCTTCACACTGGTCACTGGCCCTGCACACTGGGCTATTGCTTTATCCCTATCCTGAGAGCAGCCCC
TCCCCACCATCCCTCCACATGCTGCAAGGACAGACTGAAGGGCTGTGAGCAGGTGTAAGGGCTCCCACATCCGTG
AGCCTGTGTCCGAGCTGCTGCCACTCTGGGCTGCTCCAGCCTGCAACTTAGTGGAAGGAATTACTTCCTCCTGA
GGCTACAGGCGAGAAAGGTAGGGATGGGCCAGCCTCCCGTCTCAGCTGTTGGGAGACAGTAGGCAGGCTGAGTGG
CCCAGAGCACTCCTGGAAGTGGGACTCCCCTGCCTTGCAAATGTGCCTCTCCAGACTGCTCCTGCACTTACCCCC
TCCCCGCAGCACCTTCTCTGCCCGTTCTTGTCCACACATCTATTAAATGCTTCTGTTTTCAAAAAAAAAAAAAA
AAAAA

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FIGURE 2450

MDPPAEKPGEAGGLQITPQLLKSRITGEFSLESILLKLRGLGLADLGCLGECLEWLDLSGNALHLGPLASLR
QLAVLNVSNNRLTGLEPLATCENLQSLNAAGNLLATPGQLQCLAGLPCLEYLRDRDPLARLSNPLCANPSYWAAV
RELLPGLKVIDGERVIGRGSEFYQLCRDLDSLRPSSSPGPRATEAQPWVEPGYWESWPSRSSSILEEACRQFQD
TLQECWDLDRQASDSLAEQVLSSAGPTSSFVF

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FIGURE 2451

GGCAGGCACCAGCTGGGGAAGGCTGGTGTTCCTTGTTCGGCCACATTCTGGAGCCCGGCAGACAGCCTCAGCAAG
CTCCTGTAGCCCTTCCAGATGGTGGTCCGCGAGGCGAGTGCGGCACAGGCCTCTCTGAGCCAGGTGCTGCCCCAG
CTGCGCTACCTGCACATCTTCTGGAGCAGGTTACACACACTTTCAGGAGCAGAGTGTGCGGGAGAGGGGCGCA
GCCATCCAGCTGGCTGAGGGGTTGGCCCGGCAGCTCTGCACCGACTGTGAGCTCAACAAGCTCTTCTACCGCGAG
GAGTTTGTGCTGGCCACCTTGTGGACCCTTGTCTCAAGGGGAAGATTGAGGCCATCCTGCCATGGGGGCGGACC
GACATTGACCACTGGAAGCAAGTCCTCGTGTACAAGGTGAAGGAGATTAGAGTGTCTGAATACTCTTTGAACTCC
CCAAGTCCCTGCAAAGCCCCAGGGGTCTGTGCGTGGACCCCCACCAGGGTAGCCAAGAGCTCCGGGGTGGAGGGG
AGAAGCCAGGGGGAGCCTCTGCAGAGCAGCAGCCACTCTGGGGCCTTCTGCTGGCCCAGAGGGAGAAGGGCTTG
CTGGAGAGCATGGGGCTGCTGGCCTCTGAGAGAAGCGGGGGGCTCGCTGTCCACCAAGAGCCACTGGGCCAGCATC
ATTGTCAAGAAGTATCTGTGGGAGAATGAGACCGTTGGAGCCCAGGATGACCCCTGGCTTACTGGGAGAAGAAG
CGAGAAGCCTGGGCACCATCTATCTGTCTTACCCCCACAGGAGCCTTCTCTGAAGCATCTTTGCCCTCCCTGAA
CAGCCCCACCCTTGTAGAGCAAACTCTTCTCTCAAGGTGGAAGCCATTGAGCATCTCCTCTTCTTGAAGGCCAA
CCTGGAGCAGTTCCCCAACTACACCCCGCCTCCCTCATCTGTCTAGTGGTGACCTGGCCAAGGGGATACAGAC
CCTGCAGTCCGCTCAGGGTGGGATGGCAGACATGGCAGGTGCCGGTGCTCACCTGCCCCGTGAACCTCTAGAGAG
CCCCTGCCTGTAATAGGTCAAAGCAGAGAGCTGGGTGTTGCATCCTGGGCGCCACATGCTCATGGCCAGAATCTT
AAACCTATTGGTAGGAAAGGGTCAGTTTCTCACTTGACAGATTGCCATATTTTTTTTTCTGGGAGATGTCATTT
TCCATCTCCCGATTACTTCTTTACGTCTAGCAGTATGTGCCGAGAAGAGGCTTACTCTCTTCGTAGGTGACTGT
GAATTTTGTACTACGTGGCTTTGTACATGTGATGCTCTGTTAAACATAAGTGGGTATGAAGGTCTTGCATACA
CCTTGTCTGTGTGGATAAGTGGACACATGCCCTTAAGAGGCTTGCTTTCTCAAAAAGTGGCCAAGGATGTGGAGT
GGGCATGTGCTGGCAGGTGGGATATGTCTCAGCCTTTGGGGGCTGGATAAGCTATTGCAGCACTTTCTGAGGC
TTTCACTGTAGGGAGAAGGAAACCCCAAGGGTAGAATAGCCATTTCCAGAGGGAAGTACACACATACCCCCACAC
ACCAGTCTTTTTGGGGGTTTCAGAGTGGCCGGAGAAACCGACTGAAGGGACTGACCAGCTAGCTAGGAGAGCTGA
GACGCCAGTCTCAAATGGCGTTCTTACCAATAGTCTATTTCCAGACTACTGGAACGTTGGGGTTTCTTCCTCC
AGTGACAGCAGCCTCAGTAGCTTTCCTGGGCTCCAGGCGGCTGGCTGCACACCCTGCCTGCCATCACCTTGCCC
CTGCTTGTCTGACCACCTTTTAAAGGGGAAGTCCCTTATTTGGAAGAGAGAAAGGATGTGTGTAGCACACACTC
ATCATGGATTGCTCAGAGTTCCTTTAGGGCAGAGCTGAGGGCTGGGATCCAGGAACCAGTGGGATTGGATGGGA
GAAGAAGGAAGGGGGTGGCCCGTCACCCCGCAAGACTTGATCCAGGTAGCCTAAGGACTCCTGGTCACTGGGT
AGGGTGGCTGCTGAGATGCAGGTGCGAAGAGGCAGGGGAAGGCTCCAGGCCTAACTTGGAGCATGTCACTGGCCA
TGGGGGTGAGGGGACAGACTCTGCTCTCACTGGCTGGCAGCCCCAGGAGCCTGTTCCCTTGCCCTCTCCTGGATGG
GTTGTGAGCCCTGTGTTTCACTGTGACCAATTCATTATAACATTTGGATATTACTGAAAATGTAAGGAAGCAGGA
AAAATTAATACTTTTCACTGAGATAGCCTCTATCAATAGTTTGACATTTTCCCTCTTTTACATTGAGATCAT
ACCCTAGGTACTGTTTAGTATGCAATATTTTCAATTTTCGCAGTATAATAATTGCACCTGTAAATAAAGTTTTGT
AAACATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2452

MVVREASAAQASLSQVLPQLRYLHIFLEQVHTHFQEQSVGERGAAIQLAEGLARQLCTDCQLNKLFYREEFVLAT
LLDPCFKGKIEAILPWGPTDIDHWKQVLVYKVKEIRVSEYSLNSPSPLOSPRGLCVDPTRVAKSSGVEGRSQGEP
LQSSSHSGAFLLAQREKGLLESMGLLASERSGGSLSTKSHWASIIVKKYLWENETVGAQDDPLAYWEKKREAWPP
SICLTPHRSL

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FIGURE 2453

CTTGAAATGTTATCTAAAAACCCAAGATTGAAATAATACATACCACACAAGGAAACAGGAGAGTAGTCTAGCTCC
ATGTCCGGGGCTCTAGGGGTTTCATAGATGGCAGCTCCTGTCCGGGGCTGAGGTTGGGAGGGGAGAAACAGGGGCA
GAGTGAGTTGGTCTCTGGAGTGACTGTGCTTTTCCACCCCTCAGCAGAGGAAGAACCAGTGTGGAACGTCGTTGC
AGGGGCCCCCTGGCCATGGGCCTGGCCAGCCCCGACTCCTTTCTGGGCCCTCCAGGAGTCACCCCAGACCCTG
GGGAAGGAGTCCCGCGGGCTGAGGCAACAAGGCACGTACGTGGCCCAAGCTGCGTGGTGGCCCAAGCCCCAGGCAGGGCC
CATCGCTGTGCCCCTGTGCAAGGCACTTCCCTGGCTGGGTGGCTCTGTGGCTTCACACCCGCCGGTGCCAGGCC
CGGCTGCCCTTGCCCTGCCCTGAGTGTGGCCGTGCTTTGCCCATGCCCCCTTCTTAGCACTGCACCGCCAGGTC
CATGCTGTGTGCCACCCAGACCTGGGCTTTGCCTGCCACCTCTGTGGGCAGAGCTTCCGAGGCTGGGTGGCCCTG
GTTCTGCATCTGCGGGCCATTAGCTGCAAGCGGGCCATCGCTTGTCCCAAATGCGAGAGACGCTTCTGGCGA
CGAAAGCAGCTTCGAGCTCATCTGCGGCGGTGCCACCCCTCCCGCCCCGAGGCCCCGGCCCTTCATATGCGGCAAC
TGTGGCCGGAGCTTTGCCAGTGGGACAGCTAGTTGCCACAAGCGGGTGACGTAGCTGAGGCCCTGGAGGAG
GCCGAGCCAAGGCTCTGGGGCCCCGGCCAGGGGCCGCCCGCGGTGACCGCCCCCGGCCCGGTGGAGATGCC
GTCGACCGCCCCCTTCCAGTGTGCTGTTGTGGCAAGCGCTTCCGGCACAAGCCCAACTTGATCGCTACCGCCGC
GTGCACACGGGCGAGCGCCCCACAGTGCCCCGAGTGCGGAAGCGCTTTACCAATAAGCCCTATCTGACTTCG
CACCGGCGCATCCACACCGGCGAGAAGCCCTACCCGTGCAAGAGTGCGGCCGCCGCTTCCGGCACAACCCCAAC
CTGTGTCTCACAGCAAGATTCAAGCGATCCGAGGGGTGCGCCAGGCCGCCCGGCCCGGGGAGCCCCCAG
CTGCCAGCCGGCCCCCAGGAGTCCGCGGCCGAGCCCCACCCGCGGTACCTCTGAAACCGGCCAGGAGCCGCCG
CCAGGGGCCCCGCCAGAGCACCCGCAGGACCCGATCGAAGCCCCCCCCCTCCCTCTACAGCTGCGACGACTGCGGC
AGGAGCTTCCGGCTGGAGCGCTTCTGCGGGCCCCACAGCGGCAGCACACCGGGGAGCGGCCCTTACCTGCGCC
GAGTGCGGGAAGAATTGCGCAAGAAGACGCACCTGGTGGCGCACTCGCGCGTGCACTCCGGCGAGCGGCCCTTC
GCCTGCGAGGAGTGCGGCCGCCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGGACACGCCCCCGAT
CGGCCCTTCGTGTGTCCGACTGCGGCAAGGCCTTCCGCCACAACCCCTACCTGGCGGCGCACCGGCGCATCCAC
ACCGGCGAGAAGCCCTACGTCTGCCCGACTGCGGCAAGCCCTCAGCCAGAAGTCCAACCTGGTGTGCGACCGG
CGCATCCACACGGGCGAGCGGCCCTACGCCTGTCCCGACTGCGACCGCAGCTTACGCCAGAAGTCCAACCTCATC
ACCCACCGCAAGAGCCACATCCGGGACGGCGCCTTCTGCTGTGCCATCTGTGGCCAGACCTTCGACGACGAGGAG
AGACTCCTGGCCACCAGAAGAAGCACGATGTCTGAGACGGTGGGCGGGGCGGTGTGGCTGAGAGAGGGCTGGG
GTCCCTCGTGGTGGGAGTCGCAGTGGGTGGGGGTGCCTGCCTAGTGCTGGAGTAGGGGACAATGGGAATCCTAG
AGGGGATGGAAGACGCGGGGAGTGAGCTGGGTGGGCCCTGCTAGCGAGAGAGGTCAACCCCGTGGCCAGGGAAC
CCACTTCCAAGCGCAGGGACGCCGGCCTCCAGCTGGTGTGTGCTAAGGCTCCGTCCTGACTGCCCTGTGCCCTGG
AAAAGCAGCAATAGCATCCGCCCCCTTAGAGCCCTCTGGCTAGAGGAGCCACAGTGGAAGGAAGACCCCTCCATC
CTCTGGTATTAACGCCTTAATGCCCCGTGTCTTTACTGTAAGTTACTTAAGATCATTTTGGGAAGCAGGCGTGGT
AGAGTCCTGTAAATGAATGCTCTGGGCTAGATACAGCTTGGAGAACCTGCTGGCCTGTGTAGACAGCACTTGGGC
CTTTGCCAGCAGCAAGAGGTGAAGCGAAGCCACTCTTACCTCTCCCTTCCCTTCCCAAGAGCAGATCCCAAGGCAT
ACCCAGACTTGGAGAGACCCGTCTGCTGTTAATACTTCCATCCTCTTCTTCCCAAGAGCAGATCCCAAGGCAT
TTACTCCTTGGTCTGTCTCGCTTTATCTGTGCCCCCTCCAGCGCTGAGAGCCTCCCTTGGCTGTGACGAGCACT
GTGTCCAGGCTCTTGTCTGAACACCGCAGCCCCCTCCTTCGCTCCTTCCAGAGCTCAGCATGTACGGCAAGGACT
GCCGCATTGGTGATGGAGGGCCAGCTGAGGGGAAGTTGCTGGTGAGTTTCCTTTTCTCCATTTCTAGCATATGGA
CACCTGGCCTCTGCTTGAGCACTTAGGTGACAGGAACCTCCGCACCTCCTGAGGCCCTGGATGATTCTAATTGTT
AGAAATTCTAATTGTTAGAAATCCTTCTTATAATGAATGAATTCTGCTTTCTTATAATTTCTACCTATTGGGCC
TTGTTCTGTCTCTGGAATAAACAGAACCAACATTTACCCCTCCTTTTCAAACCTAGAGAATAAAGATTGGTTT
TAG

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FIGURE 2454A

GGGGAGCCGGGAGCCGAGCGAGGACCCGGCGCCCGCAGTCCAGTCTTGGCCGCGCCCGTGCTCGGCTTGGCCGCG
GGGTGCGGGGACCACGGCCCGGCCGGCCACCCGAAGCCTAGTGCTGGGCCGGGCCGGGGTGGGTGGGGG
CCCGCCCGGCCCGCCATGGGCTCAGGATGCCGGTGCGGAGGGGCCACGTGCGCGCCGAGAACACCTTCTGGAC
ACCATCATCCGCAAGTTTGGGGCCAGAGCCGTAAGTTCATCATCGCCAACGCTCGGGTGGAGAACTGCGCCGTC
ATCTACTGCAACGACGGCTTCTGCGAGCTGTGCGGCTACTCGCGGGCCGAGGTGATGCAGCGACCCCTGCACCTGC
GACTTCCTGCACGGGCCGCGCACGCGAGCGCCGCGTCCGCGCAGATCGCGCAGGCACTGCTGGGCGCCGAGGAG
CGCAAAGTGAAATCGCCTTCTACCGGAAAGATGGGAGCTGCTTCTATGTCTGGTGGATGTGGTGCCCGTGAAG
AACGAGGATGGGGCTGTTCATCATGTTTCATCCTCAATTTGAGGTTGGTGGTGGAGAAGGACATGGTGGGGTCCCCG
GCTCATGACACCAACCACCGGGGCCCCCACCAGCTGGCTGGCCCCAGGCCGCGCCAAGACCTTCCGCCTGAAG
CTGCCCCGCGTGTGGCGCTGACGGCCCGGGAGTCGTGGTGCGGTGCGGCGGCGCGGGCGCGCGGGCGCCCCG
GGGGCCGTGGTGGTGGACGTGGACCTGACGCCCCGCGGACCCAGCAGCGAGTCTGCTGGCCCTGGACGAAGTGACA
GCCATGGACAACCACGTGGCAGGGCTCGGGCCCGCGGAGGAGCGGCGTGCCTGGTGGGTCCCGGCTCTCCGCC
CGCAGCGCGCCCGGCCAGCTCCCATCGCCCCGGGCGCACAGCCTCAACCCGACGCTCGGGCTCCAGCTGCAGC
CTGGCCCGGACGCGCTCCCGAGAAAGCTGCGCCAGCGTGCGCCGCGCCTCGTCCGCCGACGACATCGAGGCCATG
CGCGCCGGGTGTGCCCCCGCCACCGCGCCACGCCAGCACCAGGGGCCATGCACCCACTGCGCAGCGGCTTGCTC
AACTCCACCTCGGACTCCGACCTCGTGCGCTACCGCACCATTAGCAAGATTCCCAAATCACCTCAACTTTGTG
GACCTCAAGGGCGACCCCTTCTTGGCTTCGCCCACAGTGACCGTGAGATCATAGCACCTAAGATAAAGGAGCGA
ACCCACAATGTCACTGAGAAGGTACCCAGGTCTGTCCCTGGGCGCCGACGTGCTGCCTGAGTACAAGCTGCAG
GCACCGCGCATCCACCGCTGGACCATCTGCATTACAGCCCTTCAAGGCCGTGTGGGACTGGCTCATCTGTG
CTGGTCATCTACAGGCTGTCTTACACCCCTACTCGGCTGCCTTCTGCTGAAGGAGACGGAAGAAGGCCCGCT
GCTACCGAGTGTGGCTACGCTGCCAGCCGCTGGCTGTGGTGGACCTCATCGTGGACATCATGTTTATTGTGGAC
ATCTCATCAACTTCCGACACCTACGTCAATGCCAACGAGGAGGTGGTCAGCCACCCCGCCGATCGCCGTC
CACTACTTCAAGGGCTGGTTCCTCATCGACATGGTGGCCGCCATCCCTTCGACCTGCTCATCTTCGGCTCTGGC
TCTGAGGAGCTGATCGGGCTGTGAAGACTGCGCGGCTGTGCGGCTGGTGCCTGGCGGGAAGCTGGATCGC
TACTCAGAGTACGGCGCGCCGTGCTGTCTTGTCTATGTGCACCTTTGCGCTCATCGCGCACTGGCTAGCCTGC
ATCTGGTACGCCATCGGCAACATGGAGCAGCCACACATGGACTCACGCATCGGCTGGCTGCACAACCTGGGCGAC
CAGATAGGCAAACCTACAACAGCAGCGCCTGGGCGGCCCTCCATCAAGGACAAGTATGTGACGGCGCTCTAC
TTCACCTTCAGCAGCCTACCAAGTGTGGCTTCGGCAACGTCTCTCCAAACCAACTCAGAGAAGATCTTCTCC
ATCTGCGTCATGCTATTGGCTCCCTCATGTATGTAGCATCTTCGGCAACGTGTGCGCCATCATCCAGCGCTG
TACTCGGGCACAGCCGCTACACACACAGATGCTGCGGGTGCAGGAGTTCATCCGCTTCCACCAGATCCCCAAT
CCCCGCGCCAGCGCTCGAGGAGTACTTCCAGCAGCCTGGTCTTACACCAACGGCATCGACATGAACGCGGTG
CTGAAGGGCTTCCCTGAGTGCCTGCAGGCTGACATGCTGCTGCACTGAACCGCTCACTGCTGCAGCATGCCAA
CCCTTCCGAGGGGCCACCAAGGGCTGCTTTCGGGCCCTGGCCATGAAGTTCAAGACCACACATGCACCGCCAGG
GACACACTGGTGCATGCTGGGGACCTGCTCACCGCCCTGTACTTTCATCTCCCGGGGCTCCATCGAGATCCTGCGG
GGCGACGTCGTGCTGGCCATCCTGGGGAAGAATGACATCTTGGGGAGCCTCTGAACCTGTATGCAAGGCCTGGC
AAGTCGAACGGGGATGTGCGGGCCCTACCTACTGTGACCTACACAAGATCCATCGGGACGACCTGCTGGAGGTG
CTGGACATGTACCTGAGTTCTCCGACCACTTCTGGTCCAGCCTGGAGATCACCTTCAACCTGCGAGATACCAAC
ATGATCCCGGGCTCCCCCGGCAGTACGGAGTTAGAGGTGGCTTCAGTCCGCAACGCAAGCGCAAGTTGTCTTTC
CGCAGGCGCACGGACAAGGACACGGAGCAGCCAGGGGAGGTGTGCGCCTTGGGGCCGGGCCGGGGGCGAGG
CCGAGTAGCCGGGGCCGGCCGGGGGGGCCGTGGGGGGAGAGCCGTCAGTGGCCCTCCAGCCCTGAGAGCAGT
GAGGATGAGGGCCAGGCCGAGCTCCAGCCCCCTCCGCTGGTGCCCTTCTCCAGCCCCAGCCCCCGGAGAG
CCGCCGGGTGGGGAGCCCTGATGGAGGACTGCGAGAAGAGCAGCGACACTTGCAACCCCTGTGAGGCGCCTTC
TCAGGAGTGTCCAACTTTTACGCTTCTGGGGGGACAGTCCGGGCGCCAGTACCAGGAGCTCCCTCGATGCCCC
GCCCCACCCCAAGCTTCTCAACATCCCCCTTCTCCAGCCCGGGTTCGGCGCCCCGGGGCGACGTGGAGAGCAGG
CTGGATGCCCTCCAGCGCCAGCTCAACAGGCTGGAGACCCGGCTGAGTGCAGACATGGCCACTGTCTGACGCTG
CTACAGAGGACAGTACGCTGGTCCCGCCGCTACAGTGTGTGACCACCCCGGGGCTGGCCCCACTTCCACA
TCCCCGCTGTTGCCGCTCAGCCCCCTCCCCACCTCACCTTGGACTCGCTTCTCAGGTTTCCAGTTTCATGGCG
TGTGAGGAGCTGCCCCGGGGGCCCGAGAGCTTCCCCAAGAAGGCCCCACACGACGCTCTCCCTACCGGGCCAG

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FIGURE 2454B

CTGGGGGCCCTCACCTCCCAGCCCCCTGCACAGACACGGCTCGGACCCGGGCAGTTAGTGGGGCTGCCCAGTGTGG
ACACGTGGCTCAGCCAGGGATCAAGGCGCTGCTGGGCCGCTCCCCCTTGGAGGCCCTGCTCAGGAGGCCCTGACCG
TGAAGGGGAGAGGAACTCGAAAGCACAGCTCCTCCCCAGCCCTTGGGACCATCTTCTCCTGCAGTCCCCTGGG
CCCCAGTGAGAGGGGCAGGGGCAGGGCCGGCAGTAGGTGGGGCCTGTGGTCCCCCACTGCCCTGAGGGCATTAG
CTGGTCTAACTGCCCGGAGGCACCCGGCCCTGGGCCCTTAGGCACCTCAAGGACTTTTCTGCTATTTACTGCTCTT
ATTGTTAAGGATAATAATTAAGGATCATATGAATAATTAATGAAGATGCTGATGACTATGAATAATAATAATTA
TCCTGAGGAGA

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FIGURE 2455A

AGTCCAGAGCGAGCGGGTTATGCCTCCGCCTCGTTGCCCTGAAAGCCGCAGCGACAGCGAAAAGGGCTAAGATT
GGCCATGAGCAGCGCCCCTCGGCGCCCCGCCAAGGGCGCAGATTCTTTCTGTACGCCAGAGCCAGAGAGCTTGGG
CCCTGGGACGCCTGGGTTCCCCGAGCAGGAGGAAGACGAACTTCACCGCACCTTGGGCGTGGAGCGGTTTGAGGA
GATCCTACAGGAGGCCGGGTCTCGTGGAGGGGAGGAGCCAGGCCGAGCTATGGGGAGGAAGACTTTGAGTACCA
CCGCCAGTCTCCACCACATCCATCACCCACTGTCCACCCACCTGCCTCCGGATGCACGCCGCCGAAGACACC
CCAGGGCCCAGGACGGAAGCCTCGAAGGCGCCCGGGAGCCTCCCCGACTGGAGAAAACCCCGACCATTTGAGGAGGG
GGAGGAAGATGAGGATGAGGCCAGCGAGGCTGAGGGGGGCCGGGCTCTCACTCAGCCGTCCCCGTCTCCACACC
CTCCTCGGTGCAGTTCTTTCTCCAAGAGGATGACAGTGCTGACCGGAAGGCAGAGAGGACCAGTCCATCTTCCCC
TGCACCACTGCCCCACCAGGAGGCGACTCCTCGGGCCTCCAAAGGGGGCCAGGCTGGAACCCAGGTGGAGGAGGC
GGAGGCGGAGGCGGTGGCGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGGGTGCCTCGGGGCGCCCCCTGCC
CAAAGCCCAGCCTGGGCACCGCAGCTACAACCTTCAGGAGAGGAGGCGCATCGGGAGCATGACTGGGGCTGAGCA
GGCACTGCTGCCCCGGGTCCCCACGGATGAGATTGAGGCCCAGACGCTGGCCACGGCCGACCTAGACCTCATGAA
GAGTACCCGGTTTGAGGACGTTCTGGGGTGCGGCGGCACCTTGGTGCGGAAGAAATGCCAAAGGTTCCACACAGAG
TGGCCGAGAAGGGCGGGAGCCTGGCCCCACACCTCGGGCCCCGACCCCGGGCCCCCACAAGCCCCATGAGGTGTT
TGTGGAGCTGAATGAGTTGCTCCTGGACAAAAACCAGGAGCCCCAGTGGCGGGAGACAGCTCGCTGGATCAAATT
TGAAGAGGACGTGGAGGAGGAGACTGAGCGCTGGGGGAAGCCCCACGTGGCCTCCCTCTCCTTCCGCACTCTCCT
GGAGCTCCGCAAGGACCTTGGCCCATGGGGCTGTGCTCTTGGATCTGGACCAGCAGACCCCTGCCCGGAGTGGCCCA
CCAGGTGGTGGAGCAGATGGTCATCTCTGACCAGATCAAGGCCGAGGACAGGGCCAACGTGCTGCGGGCTCTGCT
GTTGAAACACAGCCACCCAAGTGATGAGAAGGACTTCTCCTTCCCCCGCAACATCTCAGCTGGCTCCCTGGGCTC
CCTGCTGGGGCATCACCATGGTCAGGGGGCTGAGAGTGACCCCCACGTACCCGAGCCTCTCATGGGAGGTGTTCC
TGAGACCCGGCTGGAGGTGGAGCGAGAGCGTGAGCTGCCGCCCTCCAGCACCACCAGCTGGCATCACCCGCTCCAA
GTCCAAGCACGAGCTGAACTGCTGGAGAAGATTCTGAGAATGCCGAGGCCACGGTGGTCTTGTGGGCTGCGT
GGAGTTCTCTCCGCCCCACCATGGCCTTTGTGCGGCTCCGGGAGGCTGTGGAGTTGGACGCAGTGTGGAGGT
GCCGCTGCTGTGCGTTTCTCTTCTGCTGCTGGGCCCCGAGTAGTGCCAACATGGACTACCACGAGATCGGCCG
CTCCATCTCCACCCTCATGTGACACAAGCAATTCCACGAGGCGACCTACCTGGCTGACGAGCGGGAGGACCTGCT
GACGGCCATCAACGCCTTCTGGACTGCAGCGTGGTGCTGCCGCCCTTCAAGAGTGACAGGGCGAGGAGCTGCTGCG
CTCTGTGGCCCACTTCCAGCGCCAGATGCTCAAGAAGCGAGAGGAGCAGGGCCGGCTGCTACCTACAGGGGCTGG
GCTGGAGCCCAAATCTGCCAAGATAAGGCGCTCCTGCAGATGGTAGAGGCGGCAGGGGCAGCTGAAGATGATCC
CCTTCGGCGGACGGGGCGGCCCTTTGGGGGGCTGATCCGAGATGTGCGGCGCCGCTATCCCCACTACCTGAGTGA
CTTCCGAGATGCACTTGACCTCAGTGCTGGCCGAGTCATCTTCTACTTTGCCGCCCTGTCTCCTGCCAT
CACCTTTGGGGGGCTGCTGGGAGAGAAGACGAGGACCTGATAGGGGTGTGGAGCTGATTATGTCCACAAGCGCT
CCAGGGCGTGGTCTTCTGCCTGCTGGGTGCCAGCCCCCTGTTGGTGATCGGCTTCTCAGGGCCCCTGCTGGTCTT
TGAGGAGGCTTCTTCTCGTTCTGTAGCAGCAACCACCTGGAGTACCTGGTGGGCGGTGTGTGGATCGGCTTCTG
GCTGGTGTCTTCTGGCCCTGCTCATGGTGGCCCTGGAGGGGAGCTTCTGGTCCGCTTCGTCTCCCGCTTCACCCA
GGAGATCTTCGCTTCTTGATCTCACTCATCTTATGAGACCTTCTACAAGCTGGTGAAGATCTTCCAGGA
GCACCCCTGCATGGCTGCTCAGCCTCCAACAGCTCAGAGGTGGACGGCGGTGAGAACATGACATGGGCCGGGGC
AAGACCCACGCTGGGGCCGGGCAACAGGAGCTTGGCTGGGCAGTCTGGGCAGGGGAAGCCCCGGGGCCAGCCCAA
CACGGCCCTGCTGTGCTGGTGTCTATGGCCGGCACCTTCTTCATCGCCTTCTTCTGCGCAAATTCAAGAACAG
CCGTTCTTCTTGGCCGATCCGGCGGGTGATTGGGGACTTTGGGGTGCCATCGCCATCCTCATATGGTGTCT
TGTGGATTACAGTATTGAGGACACCTATACCCAGAAGCTGAGCGTTCCAGTGGATTCTCGGTGACTGCCCCAGA
AAAGAGGGGCTGGGTATCAACCCCCTGGGAGAGAAGAGCCCCCTCCCTGTGTGGATGATGGTTGCCAGCCTGCT
GCCCCCATCCTGGTCTTCACTTCTATCTTATGAGACACAGATCACCACGCTCATCATCTCCAAGAAGGAGCG
CATGCTGCAGAAGGGCTCCGGCTTCCACCTGGACCTGCTGCTCATCGTGGCCATGGGCGGCATCTGTGCCCTCTT
TGGCCTGCCCTGGTTGGCTGCTGCCACTGTCCGCTCTGTCACTACGCCAACGCGCTCACTGTCTGAGCAAGGC
TGTGGCACCTGGGGACAAGCCCAAGATTCAAGGAAGTCAAGGAGCAGCGGGTGACGGGGCTGCTGGTTGCCCTGCT
TGTGGGCTCTCCATAGTTATCGGGATCTGCTCCGGCAGATCCCCCTGGCCGTGCTCTTTGGAATTTCTCTGTA
CATGGGAGTACCTCCCTTAACGGGATCCAGTCTATGAGCGGCTGCATCTGCTGCTCATGCCGCCAAACACCA
CCCAGATGTCACTTACGTCAAGAAGTCCGGACCCCTCCGTATGCACCTGTTACGGCCCTGCAGTGCTCTGCT

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FIGURE 2455B

GGCCCTGCTCTGGGCGTCATGTCCACAGCTGCCTCCCTGGCCTTCCCCTTCATCCTCATCCTCACAGTGCCGCT
CCGCATGGTGGTGCTCACCCGTATCTTCACCGACCGAGAGATGAAATGTCTGGATGCTAACGAGGCAGAGCCGGT
GTTTGATGAGCGGGAGGGTGTGGACGAGTACAATGAGATGCCCCATGCCTGTGTAGCCGCCACCGAGGGACAGCCG
AGGGACCGATGGACGAGGGGACAGGCTGGTGGGATGGGGTTCCCCCTCCCATGCCCCTCCCTCCTTTTATTAA
GTGAATAATTAAAGTCTTCTCCTCCCCACTGCCCTGCAGTAAAGTGCTTTGGCCCCCA

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FIGURE 2456

GCGGCGGCGGGGAAGGAGGGGTGCTTCAGGTGCCTGCGACCTCCGCGCCTCCCGCCCGGAAGTGCCCGAGGGGCC
GCGATGGAGCTGGGGGAGCCGGGCGCTCGGTAGCGCGGCGGGCAAGGCAGGCGCCATGACCCTGATTGAAGGGGT
GGGTGATGAGGTGACCGTCCTTTTCTCGGTGCTTGCCCTGCTTCTGGTGCTGGCCCTTGCCCTGGGTCTCAACGCA
CACCGCTGAGGGCGGGGACCCACTGCCCCAGCCGTCAGGGACCCCAACGCCATCCCAGCCCAGCGCAGCCATGGC
AGCTACCGACAGCATGAGAGGGGAGGCCCCAGGGGCAGAGACCCCCAGCCTGAGACACAGAGGTCAAGCTGCACA
GCCAGAGCCCAGCACGGGGTTACAGCAACACCGCCAGCCCCGGACTCCCCGCAGGAGCCCCCTCGTGCTACGGCT
GAAATTCTCTCAATGATTGAGAGCAGGTGGCCAGGGCCTGGCCCCACGACACCATTGGCTCCTTGAAAAGGACCCA
GTTTCCCGGCGGGGAACAGCAGGTGCGACTCATCTACCAAGGGCAGCTGCTAGGCGACGACACCCAGACCCTGGG
CAGCCTTACCTCCCTCCCAACTGCGTTCTCCACTGCCACGTGTCCACGAGAGTCGGTCCCCCAAATCCCCCTG
CCCGCCGGGGTCCGAGCCCGGCCCCCTCCGGGCTGGAAATCGGCAGCCTGCTGCTGCCCCTGCTGCTCCTGCTGTT
GCTGCTGCTCTGGTACTGCCAGATCCAGTACCGGCCCTTCTTTCCCTGACCGCCACTCTGGGCTGGCCGGCTT
CACCTGCTCCTCAGTCTCCTGGCCTTTGCCATGTACCGCCCGTAGTGCTCCGCGGGCGCTTGGCAGCGTCGCC
GGCCCCTCGGACCTTGCTCCCCGCGCCGCGGCGGGAGCTGCTGCCTGCCAGGCCCCGCTCTCCGGCCTGCCCTC
TTCCCGCCGCCCTGGAGCCCAGCCCTGCGCCGAGAGGACTCCCGGGACTGGCGGAGGCCCCGCCCTGCGACCGC
CGGGGCTCGGGGCCACCTCCCGGGGCTGCTGACCCTCAGCCCGCACTGGGAGTGGGCTCCTCGGGGTGGGCATC
TGCTGTCGCTGCCTCGCCCCGGGCAGAGCCGGGCGCCCCGGGGGCCCGTCTTAGTGTTCTGCCGAGGACCCA
GCCGCTCCAATCCCTGACAGCTCCTTGGGCTGAGTTGGGACGCCAGGTTCGGTGGGAGGCTGGTGAAGGGGAGC
GGGGAGGGGCAGAGGAGTTCCCCGGAACCCGTGCAGATTAAAGTAACTGTGAAGTTTTCAAAAAAAAAAAAA

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FIGURE 2457

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGGDPLPQPSGTPTPSQPSAAMAATDSMRGEAPGAETPSLR
HRGQAAQPEPSTGFTATPPAPDSPQEPLVLRRLKFLNDSEQVARAWPHDTIGSLKRTQFPGREQQVRLIYQGQLLG
DDTQTLGSLHLPPNCVLHCHVSTRVGPPNPPCPPGSEPGPSGLEIGSLLLPLLLLLLLLLLWYCQIQYRPFPLTA
TLGLAGFTLLLSLLAFAMYRP

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FIGURE 2458

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTCAATCATCATGCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAGGACATGAAGAAAATGGAGATGTTGTAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCCTGGCCTCTCACCCCAACAGTACTGA
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAACTGGAATTAACTC
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCCTTGCA
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
GATCTTGATGGACTGGGTTTCACACCTGCCATGCGAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTTCGGCCCTTCATGCTGCTCCTGGATGAGCCTACCAACCACCTGGA
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTTAAGCGCATCTTGGTCCTCGTCTCCCATTTCCA
GGATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAAATTA
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCGGAGGCCCAGAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCGTGAGCGATAAGACACTGTCAATTTATTT
CCCACCATGTGGCAAGATCCCTCCACCTGTCAATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC
TTGCATCTACAATAATCTAGAATTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTCACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTTGTGAGACGGGCAGAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTGAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAAGAGGACCCACAACGTGTGCACCCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAACGACGTGTTTGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGGACCACCCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCCTGGGGAGCTGGCCAAGCAC
GCTGTGCTGAGGGCACCAAGGCTGTCACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAAATAAAGG
GTGAACTGTTAAAAA

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FIGURE 2459

MPSDLAKKKAACKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKKAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVPPIPEHIDIYHLTRE
MPPSDKTPLHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDDLACVWLEELKTFKRILVLVSHSQDFLNGVCTNIIHMHN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLOKMMASGLTERV
VSDKTLSFYFPPCGKIPPPVIMVQNVSFKYTKDGPCIYNNLEFGIDLDTRVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKHSVHKIGRYHQHLQEQLDDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPMLFLDEPTNHLDIETIDALADAINFEFGMMLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 2460

GCCTAATTAAAAGGCGGCGGAAGAAGGTGGGAGGGTCATGACGCAGCGAGTTTCAGTCGTGACTTTTCTGGGGGC
ATCGCGGCGTCCCCTTTTTTTTGCCTTTAAAGTAAAACGTCGCCCCGACGCACCCCCCGCGTATTTGCGGGGGCG
GAGGCGCGGGGCCACGGCGCGAAGAGGGGCGGTGCTGACGCCGGCCGGTCACGTGGGCGTGTTGTGGGGGGGAGG
GGCGCCGCCGCGCGGTTCGGTTCCGGGCGGTTGGGAGCGCGCGAGCTAGCGAGCGAGAGGCAGCCGCGCCCGCCGC
CGCCCCTGCTCTGTATGCCGCTCTCTCCCGCGCGGGCCGCCCGGATCACAGCAGCAGGAGCCACCGCCGCGCG
GTTGATGTGGTTGGGCCGGGCTGAGGAGGCCGCAAGATGCGCAGTCCAAGTCCCGGAAGATCGCGATCCTGG
GCTACCGGTCTGTGGGGAAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAA
CCATAGAAAACACTTTTACAAAGTTGATCACAGTAAATGGACAAGAATATCATCTTCAACTTGTAGACACAGCCG
GGCAAGATGAATATTCTATCTTTCCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTA
CATCAATCAAAAGTTTTGAAGTGATTAAAGTTATCCATGGCAAATTGTTGGATATGGTGGGGAAAGTACAAATAC
CTATTATGTTGGTTGGGAATAAGAAAGACCTGCATATGGAAAGGGTGATCAGTTATGAAGAAGGGAAAGCTTTGG
CAGAATCTTGAATGCAGCTTTTTTGGAACTTCTGCTAAAGAAAATCAGACTGCTGTGGATGTTTTTCGAAGGA
TAATTTTGGAGGCAGAAAAATGGACGGGGCAGCTTCACAAGGCAAGTCTTCATGCTCGGTGATGTGATTCTGCT
GCAAAGCCTGAGGACACTGGGAATATATTCTACCTGAAGAAGCAAAGTCCCCGTTCTCCTTGAAGATAAACTATG
CTTCTTTTTTCTTCTGTAACTGAAAGATATCATTTGGGTCAGAGCTCCCCCTCCCTTCAGATTATGTTAACTCT
GAGTCTGTCCAAATGAGTTCACCTCCATTTTCAAATTTTAAGCAATCATATTTCAATTTATATATTGTATTCT
TAATATTATGACCAAGAATTTTATCGGCATTAATTTTTCAGTGTAGTTTGTGTTTAAATAATGTAATCATCAA
AATGATGCATATTGTTACACTACTATTAAGGCTTCAGTATATCAGTGTTTATTTTCATTGTGTTAAATGTATA
CTTGTAATAAAATAGCTGCAACCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2461

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIFPQTYS
IDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERVISYEEGKALAESWNAAFLESSA
KENQTAVDVFRRIILEAEKMDGAASQGKSSCSVM

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FIGURE 2462A

GATTTACTTGGAGAAGATTGCTATCTGGCAAAAAGAATCAGTCGGATTGTGTCAGATGAAGAGCTAAATGATGAT
CTTTTGCAGAGTGATAATGAAGATGAAGAAAATTTTCAGTTCTCAGGGTGTTACAATTAGTCTGAATGCTACATCT
GGCATGGTTACATCATTGAACTCTCTGACAACTAACGACCAATCTGGAGAACAGGAATCTGAGTATGAACAA
GAACAAGGAGAGGATGAACTGGTTTATCACAATCTGATGGATCAGAATTGTATACTCAAGAGTACCCAGAAGAA
GGACAGTATGAAGGCCACGAAGCTGAGTTGACAGAAGACCAATAGAATATGTGGAAGAGCCAGAGGAGGAGCAG
CTTTTACTGATGAAGTGTAGACATCGAGATCAATGAACCTTTAGATGAATTTACAGGAGGTATGGAAACATTG
GAACTTCAAAAGGACATCAAAGAAGAATCAGATGAAGAAGAAGAAGATGATGAAGAATCTGGACGATTACGTTTC
AAAAGTGAAGGAAAGAAGGAACAATTATTAGGCTCTCAGATGTAAGTAGAGAGAGAAGGAACATTCCAGAACT
TTGGAGCTTTTTCAGCAGAGGCCAAGGCAGCATTGCTTGAATTTGAAGAAAGGGAGCGACAGCATAAACAAGGACGC
TACAGCTCCAGGCGGGGAGGACGCGCAGGAGGTCCGCTGATGTGTCGTGGTGTGGGGGACCAGAGGAGAGAGAGC
ACCGAGAGGGGACAGGATGAAGGACCACAGACCTGCGCTGCTTCTACACAGCCTCCTGTCTGATCTTCCAGAG
GAGGAATTAATGAGCGACCTGATGCCCTAAGATGACATAAGCTGTTGGACCTTGCTACCTAAAGCCTCTAGAGAG
CCCCAGGCTCCCCCTCCACCGCTCCGCGCTCAGCAGCAGCCGATCAGAAGCCTGTTCCAGCCGACGCGCTG
CAGCCGCTGCTTCCGGTGACGACCCGACCCATCCCGCTCAGGGAATGCACATGCCTCCCCAGCTAGAG
ACCCCAAGGATGATGATGACCCCGCCACCCGTGACTCCACAGCAGCCCAAGAACATACACATCAACCCGCACTTC
AAAGGGACGGTGGTCACGCCTGTTCAAGTGCCCTTGCTACCACTTCCGAGCCAGCCGAGACCTGCCGTGGGACCC
CAGAGATTTCCAGGCCCTCCAGAATTTCCAAGCAGATACACCTGGACCTGTTCCCAACAGTTTCAGCCAGCCCCCA
CGACTCCCTCTCCAGGACCACTGGAGAGCCCCACCCCGCTCAGGATCGAGACCTTTCTTCTTAGGAGTTTCA
GGTGAACCAAGATTTCCGAGCCATCTTTTTCTGGAACAGCGAAGTCCCCCTCCACCACCACCGCTCCTACCCTT
CTTAACAGTAGCCATCTGTTCTTACTCAGAGTCTCTACCATTCCTCAGCCAGGACCAGCATTTAATCAGCAA
GGACAGCAGCCAGTGTTCCTAAGAGAGCGGCCGTACGACCAGCCTTGACGCTCCAGGTCCGGTGGGGATTCTG
CACTTTAGCCAGCCTGGGTCCGCAACCACACGCCCCCTCATTCTCTCTAGACAGCCGTTCTGCCAGGCCACGGA
CAGCCGTTTCTGCCACACACACACAGCCCAACCTGCAGGTAATGCATCCTGAGTGAACCTCCAGGGAAGAAATG
TGTAGCTTCAAGGCTTTGTGTTCCATAAAGTTTCAGATTTTATTTGAGCCTACTAATTTGTGGTTATTTAAAGA
ATAGAGTATTAGTCTCAAAATGTACTGTTTGTAAAGACAACTTTTTCAACAATGTTACTTATCTCAATACAAGA
AAAAATGGGAAATGTCATTTTTTGGGAATTGAAAAATGCTACTTATTATAATGTTTAAAGGTATACTACTA
ATAAAATTAGGACATGTTTGTATAATACATTTGCTCATCTGTATAAAATTTTCATGAGAGGTTTACCAGTGGAAT
ACTTGTCAAATTATATCTGTCAGTAGACAGTTTGAAGAGAGTCTTGCATGAGGGAAGAAGATGTTGCTGT
TCACTGGTTATTTGAAGGCCTTGAGTGCCCTCTGCCGACCGGCTTCTGCTTCATGGGTTTTCTAGGTTATTTGA
AGGCCTTGAGTGCCCTCTGCCCATCGGCTTCTGCTTCATGGGTGACATGCGTCTGTAACATCTTTCTTACCAAG
TGTATATTCTTCTTGATTGTAGGGTTACTATTAATAATACATAGCGATGGTAACTTGAATCAACTATTTAAAA
ATACGTGGAATACGTATCTAAGCCAAAAACGGAAATGAATATTATCTAGGGTGTAAAGGAAGATAAAATGTTT
TTAAGAATTTTTCTTTTTATTAAAAAATGCAATTAATACATCCCCATTGCAGAAATTTTCAAGTATATATAAGA
AAGGAAATTAATACTCTCGTTACCTAGAAACAATTCAGGAGCTTTTTTTTTTTTGTCTTTTTTAAATGCACATCT
TCTCGCCACCTGCTTTTTCCCTCCAGTGTACATATCATTGATCTTTTTCATGTCAGCGAGTTGGTTTTGATGCC
ATCGTTTGAGAGTGCTGTATGCGGTTCCCTTTTCATGCTGTCTGTGTGGTTGCATGTGTGTATACTGGTTTCAGTA
CTTTAGTATCATAGTGCTACAGGGAACATGCTTTAGAGTTATGAGTTTGTCTGCATACCTAGTTTTCCTTAGGAC
AATTCAATCCTAGAATTACTGGATTAAATATAAAATTTAAGGTAATAGCTTCTGGCTTATTACTGCATTTTAGAT
AGTATTACCTTTCATCAGCAAGTCTAAAAATGAAGTTTTGGTATCGCTGAAAGTTCCCTTCTTGTGTGAGGTTTTT
TAGGAAATGATTGAAGTGATTATGCCCGGTGTAACCATTTATGAAGTGTGTTCTCTTTCTTTGAAATGGAAG
GGGCCGTTGTCATCTCCATTGCCCTCCGCTCAGCCTCAGCCTCAGCAACCTCAGCAACAGCCCCCGCCACAG
CACCAGCCTCCGCACCAGCCCCCGCACCAGCCCCCGCCACAGCACCAGCCCCACCCAGCACCACACAGCAC
CCGCCGACGACCAGCACCACCACCACCACCACCTGTCCGTCCCGCCCCCTCCTTTGATGCCGATGTCTCAG
CCACAGTTCGGGCTCAGTACAGACCGCTCAGCCTCAGGCCAGCAGCAGCCGATGCAAGTCCCCCAGCGCCAG
GGGCTCCGGCATAATACAACCTTCTCAGAATGTAAGCAAGCGGCCATGCAGCAAATGCAGCCCACTGCGCCAAGG
AACAGCAATTTGCGTGAATTACCCATAGCGCGCTCACACGTGATAGAAATGAGCAGCAGCCGCTGCTCTGCCACG
CCCTCAGCACAAAGTGAACCTATCGTCAGCGCGTACCACCTCGCGGGCGGTGGCGGGTTCCAGAAGCTCACAG
GGAAAGACGGAAGTGAAGTCAAGCCAGCTAGCCCTGTGGCTCAACCTAAAGAAGAGGCAAAAACAGAAACAGAG

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FIGURE 2462B

TTTCCTGATGAAGATGAGGAAACAAGGTTATATCGCTTAAAGATAGAAGAACAGAAACGCCTAAGAGAAGAAATC
CTGAAACAGAAGGAGTTACGGCGGCAGCAGCAGGCTGGTGCCAGGAAGAAGGAGCTGCTGGAGAGACTCGCGCAG
CAACAGCAGCAGCTGTACGCTCCCCACCCCCAGCAGAGCAGGAAGAGCAGGCACTGTCACCATCACCCACCAAC
GGTAACCCACTGTGCCCCTTTCCAGGTGCACAGGTCAGACAAAATGTGAAGAACAGACTTCTTGTTAAAAACCAG
GATGTCAGTATTTCAAACGTTTCAGCCCAAAACATCCAATTTTGTACCATCCAGTGCCAACATGCAGTATCAAGGA
CAACAGATGAAAGCACTGAAACATTTGAGACAGACCAGAACAGTTCCTCAAAGTCAGACTCAGCCGCTGCATAAA
GTGCTCCCGATCAAACCTGCAGATGTGGAGGAGCCAGCTGTCCCCCAGACTCCTCGAGTGGCGTCCATCCAGGGC
CGGCCCCAGGACACAAAGCCTGGCGTGAAAAGGACTGTCACGCACAGGACAAACAGTGGTGGTGGAGACGGGCCC
CACATCAGCTCCAAGGTCAGGGTGATTAAGCTGTCAGGTGGGGTAAGTTGACAAGTTTTATGAGAGCCTCTTTGA
GTCTGTGTATCACATAGAATGTCCTCATTTCAGAGAATGTTTTTGAAGAAAGAATTAAAAGTTACCTCTGTTAT
AGTCTTGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2463

MIEVIMPGVTIYELLFLFLWKWKGPLHPPPLPPPHQPQPQPPQPPQHQPQPPHQPQPPQHQPQPPQHPPQHPP
QHQHSHHHHHLSVPPPLMPMSQPQFRPHVQTAQPQASSSRMQCFQROGLRHNTTSQNVSKRPMQQMQPTAPRNS
NLRELPIAPSHVIEMSSSRCSATPSAQVKPIVSASPPSRAVAGSRSSQGKTEVKVKFASPVAQPKEEAKTETETFP
DEDEETRLYRLKIEEQKRLREEILKQKELRRQQQAGARKKELLERLAQQQQQLYAPPPFAEQEEQALSPSPTNGN
PLLPFPGAQVRQNVKNRLLVKNQDVSISNVQPKTSNFVPSSANMQYQGQOMKALKHLRQTRTPQSQTQPLHKVL
PIKPADVEEPAVPQTPRVASIQGRPQDTKPGVKRTVTHRTNSGGGDGPHISSKVRVIKLSGGVS

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FIGURE 2464

GCCGGTGTCTGGTTCGGGTACCTGTTCCAACACGGCTCGCGGGCCCGTGCCGGCTCCGGTCCCCGGCGCGGCTG
TCCGAGCCCCTGCGGCGGGCGGACGATGGTGTGGCGGAGCACGCGGACGCGGGCGGGCGGGCGGGCATGAAG
GAGGATGGAAGGGCAGGACGAGGTGTGCGCGCGGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATATG
TTTCCTTCTTTTTGCCATTCTCTACGTTGTTTCTACTTCATCATCACAAGATACAAGAGAAAATCAGATGAACA
AGAAGATGAAGATGCCATCGTCAACAGGATTTCGTTGTTTTTGAGCACGTTCACTCTCGCAGTGTGAGCTGGGGC
TGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGAACTACTATATTGAGTG
GCTAAATGGCTCCCTGATTCATGGTTTGTTGAATCTTGCTTCCCTTTTTTCCAACCTTTGTTTATTGTATTGAT
GCCCTTTGCTTTTTTCTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAAAAGGGAATCCGAGCCCGCATTTTAGA
GACTTTGGTTCATGCTTCTTCTTCTTGCGTTACTCATTCTTGGGATAGTGTGGGTAGCTTCAGCACTCATTGACAA
CGATGCCGCAAGCATGGAATCTTTATATGATCTCTGGGAGTTCTATCTACCCATTTTATATTCTGTATATCATT
GATGGGATGTTTGTTACTTCTTCTTGTGTACACCAGTTGGCTTTCTCGTATGTTACAGTGATGGGTGAGTTGCT
AGTGAAGCCAACAATTCTTGAAGACCTGGATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAG
ACGACTAAATGGGCTGTCTTCATCGGTGGAATACAACATAATGGAGTTGGAACAAGAACTTGAAAATGTAAAGAC
TCTTAAGACAAAATTAGAGAGGCGAAAAAGGCTTCAGCATGGGAAAAGAAATTTGGTGATCCCGCTGTTATGGT
TCTCCTTCTTATTGAGACATCCATCTCGGTCTCTTGGTGGCTTGTAATATTCTTTGCCTATTGGTTGATGAAAC
AGCAATGCCAAAAGGAACAAGGGGGCTGGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGC
GCTTGAAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTGCGCTTCTATAGCCTTCGATTTTTTGAAA
CTTTACTCCCAAGAAAGATGACACAACATGACAAAGATCATTGGAAATTGTGTGTCATCTTGGTTTTGAGCTC
TGCTCTGCCTGTGATGTGAGAACACTGGGAATCACTAGATTGATCTACTTGGCGACTTTGGAAGGTTAATTG
GCTGGGAAATTTCTATATTGTATTATCTACAATTTGCTTTTTGCTATTGTGACAACATTGTGTCTGGTCCGAAA
ATTCACTCTGCAGTTTCGAGAAGAACTTTTCAAGGCCCTAGGGCTTCATAAACTTCACTTACCAAATACTTCAAG
GGATTGAGAAACAGCCAAGCCTTCTGTAAATGGGCATCAGAAAGCACTGTGAGACGCACAGACGGCGTCTTCTGC
CACCAGAGACCCGAGAACTCCAGATTCACGACATTCCGTGCCATGTAGAAGCATTTCATTCAACCGTGGCCC
CTCTTCAGAACCTAGACCTATCAGTGCCATTTTTTTTTTCTAATCTACGAAGAACTTGGCTATGGCTGATCTTTT
TTAAATTTAACTTTCTGATGGACCCTGTAGTTCCAGTTAAGTGCAGATTCCCTACAGACATATAGAACAGCGCA
TTCTTCTGTAGACATTTGCTCATGTTGGTAAATACAATCACCATATGAAAAATTTGTTTTACCTGATATGAAA
ATGTTAGAAAAGGCAAACTCCGGGACTTCTAAAGATTTACTTAAATCCCATTATGTACTTTATTCAGAAATGTAGA
AGCTGACTTGAAAGGCATCCTTGGTACTAAGTGAAGCTTATTCAGAAAATGCATTTTCAAATGCAATGGCAACT
GCTTGATAGATATCATTTTTGTCAGTGTATGTTGGAGCTGTAATGGTTGCAATTATGTTTCTTATTTCTTAAAGC
AAAAAGCGTAGTTTCTGATTTATGTTATAGAATGATACTGATTAGACTTTGAGCCAAGGGGAAAACTAAATTC
TTTTAAACCTGGAGCCTTAGAGAGCCACAGGAATATCTTCTGTTGTACAGTCTAATAAGCTGTGGTAGGAAGTAT
CATGTAATCACAGTTTAAATGACAGTTTATGTATATATAAATTCAGTATTCCTCTGATAACATAGTTGCCAGTG
TTTAATACACTTGTAACCTGGATTTTTACCTTATAGGCTATATGTATACTCAGTTTTTTAAAGCATTTTTTTCAG
AGATCACTTAATCCCCATGCTTCTGCAATGCATATAAAAACTATAAATGCCGAGTGGTAGAACTCCTCTTTCT
TCATAGTCCCTCAGGCTTTGGTTACATTTGCATATGCCATTTGAAGCCTCCAGCTTTTACCAGTTTAAACATCCAAA
GTTACAGCATCAGCATTGAGTGTGTAAGAACAGTTTTGTCAGTATAACACGATCTGATAATCATTGATTATTA
ATTGTAATAAATTATTGGGATGGTTTCTTGGCTTTAAGTCCACTGAATAAAAACTATGAAATTGCAAAAAAAA
AAAAAA

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FIGURE 2465

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIVNRISLFLSTFTLAVSAGAV
LLLPSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPAFFFFLESEGFAGLKKGIRARILET
LVMLLLALLILGIVWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLLCTPVGLSRMFTVMGQLLV
KPTILEDLDEQIYIITLEEEALQRRNLGLSSSVVEYNIMELEQELENVKTCLKLERRKKASAWERNLVYPAMVL
LLIETSIISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGAALEIILIFYLMVSSVVGFYSLRFFGNF
TPKKDDTTMTKIIGNCVSILVLSSALPVMSTRITGTRFDLLGDFGRFNWLGNFYIVLSYNLLFAIVTTLCLVRKF
TSAVREELFKALGLHLHLPLNTSRDSETAKPSVNGHQKAL

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FIGURE 2466

TCTTTCGTAACCGTAGCTTGAGGCACATTTCTAAATATGCAGCATGGAACGCTTGGCGGTTCTGAACGCGCAT
CTCGTGCTGCTCCTGTAGGGCGGTTAGGACGCGCTCCTCTGGCGAGGAAGGTGGCAGCCTCCACTGTGCACGGGT
CACAGCGGAGTGTGGTGTGGTGTGGTGTGGGTGGGGTGTGGACTGGATCTGCAGGCTTGTCCCTCTCTCGTGGA
GAGTGTGCGGGGTCCAGGCAGTGCTCAGTGGTGAGAGCCACAGCACATTTGAAAGTCCACATGTGTTGCCCCAC
TGTGGTCCAGGACATGTGTGAGCCACACTCAGTGGACTTGACCTGTGACATGTTGGTCAGCGTGGCGGGCCGTCA
GCTGGGTGTGGAATGCATCTGATTGGAGCCTGGCACC CGCCTACCATGATTGTGATTCTCTGGGGCGAGTCCTG
AGTGTGGGCAGGGCCTCAGGCCCCCAAGAGGGCTGTGAGCAGGCACCTTCTGTGAGGCACGATGCCACCATGTG
AAGTTGTGTGGGTCTTTGGAGAGTTCTGGCAGGTTGAGGGCCTGTGCGTGTGGGACCCAGGCCCTGCCCTGCCTGC
TGCCGCCCATGTTCCCTCTGCCCAGTCATGTTGACAATTGTGGCCAAATTCAACATCGGGCCTGTTTCTTGCACC
CACGTTGGCACACACTGAGTTCAAGACAGTTTCTGCAGAAATGAATCCAGAGGTGTTTATTCTGGCACGTTGGA
TCAGACGTTTCAGAGGGTGGGCGTCTTTCTCCATGCACCTCAGCTGGATCAGTCAGTGTGAGCCATTGACTTTAGC
AACAGGGAAATGAAAGACTTTCTCAATAAGAAATGGGACTTTCTCACGCTGGATGGCACAGAGCTGGCAAACAT
GAGGCCAGTCCACACCAAGGCTTTGCGTGCAGAAAGGCTGCACGTGAGCCAGCGGGGAAGCGGAGGAGACACCT
GTGGACACCTCCCCACAGGTGGGCACACCTTTGCGCAGGCCAGTGTGCGTCTGAAGGAGAGCCCAGGGTGGG
GTTCCGGGACTGAGGTGCAGCCGTGTCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC
AGGGTGGGGTTCAGGACTGAGGTGCAGCCGTGCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGG
TAGTCCAGGGTGGGCTTTTAGCTCTGCCGCTGGGCGGAAGTCGGGTAGGTGGGAGTCCCTCACTTCTCTGCAGG
TGGTGAAGCTCTCTGGGTAGTGTGAGCAGTTCTCAACGTGCACCTTGAAAGCGCCCGTTTTGAGGTTTAGCTGT
GGCCAGATAGATGACTTCATTTTGTGCTTTTTGTCTTAAACATGGGGAGATATTTAGAAAACATGTTTGGCTC
TTGCTGGGGAAGCAGTGCTGTTCGTACAGTGTTTTACAAGCCGTGTTTCTTAGGATTGAAAGAAGGTGGCAAG
AGGAAGAAGCAGAAGCAGAGAGAGGAGTCGAAGAAGAAGAAGTCGACCAAAGGCAATCACTAGACCGGACTTGAG
GCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGCTCGGCATGCGGTCTGTCACACGCGCTAGGTAGCAGC
GTCGGTCAAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTATGCGATCACGGATCAGTCAGAGCAGGGTCAG
GAGACGGGGCTGACGGCACGGGTGGCGGGACAGACGTTTGGGACTTGGCCGCGACTCTCTGCTTCTCTCCAGCT
CTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCACTTCTTTTCGGCTACTCAACCACCTCCGCATGC
TGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATGGCTAACTGAGTAACATTTCATGAAATGAGGCT
TTCTGTGGCGGCGTAGTGTGTTGGAATTAGAAGGTAATTCAGTAGAGTGTAACCTTAGAGAATATTGCAAGTGACAC
ATTGAATCCTGCCCGTCAGGGCACCTTTTCTCAGAGCAATCCGGCCACACGAATAGAAGGCTGTCGTGAATCAC
ATCAGATGTAAATCATTCCTTCTGTTTACTCTTTAATTTTCATCCTTTGCAGGTAGTGCAAATTCACCTTCAA
ATATGGGTAGGTTTTGCTAGATTCCATATTTTTTCTTGGATTTTGCTAATTATTTTAGCAAAAAATTTTGG
CTCAGTGGCACTCTCCCTAGTGTCCATGGGTTAGGGCCATGCTGGGGAAAACGGGCCGGTATTTACACACGCGCA
AAACACCCAGAGACGGCACAGGAGGTTGAACTCATGTTTTCAGTTCGCGAACATTGACTCCTTACGAAAGTCACT
TCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTCTGTTTGCATGATGTATTGCTTCTTACGTTTTGTTTT
TATTGAGCACGGAGTAGAATTCAGGGCTGCCCTTGACTTCTTCCCTGCATGCTCCCTCCAGTGACTTTCCTTCC
CTTTCACATGAGGATCTGCCGTTTCATGTTGCTTCTCTCTTGTCTTGGACTTGAGGGCATTGTGAAAAGCTT
TGCTGTGATTTAAAAATGCCAGCAATTTAATCTAGCAGTGTTGAAGCTGGGAATTTTGGCGCAATCCATGTA
GCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGATTTTATTTAACACAAGTGTGTTGCCAAAGAGTT
GGCTTTGTTTTATTGGTTTTGGCGGGGAGAGGAGTGGTATTTGATGCTTCTGTGGACAATGTAACCCTAAACAC
ATCATGTATTTTAAATGCCACCTACATAAATAAAACATAAGCATATTGAATAC

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FIGURE 2467

CTAAGACAGGTGCAGACGTATGTCGGCTTTGGCGTATCCATCAAGCTTTATATTGCTTTGATTATGATTGGAGG
AAAGTGGAGAAATTAAGATATGTTACTTGAGTGCTTCATAAATATTAATTATATCAAGAAAGAAGAGGGAAGAA
GATTTCTTAGTTGTCTCTTCAACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACCAGTTAC
AGGGATTACAAAAGTCTTTGATGGTATACATTGCAGAAATTTATTTCAGAGCTTGAAAAAGGCTTCAGGGAAAA
TACTGGAGGCGATTGAAAATGATTGCATCCAGGACTTCATGTTTCACGGGATACACCTTCCGAGGAGGTCTCCAG
TGCATTCCAAAGTGCAGGAGGTCTGAGTTACTTTCACCATCAAAAGAAAGTTCGGCAGGGAGTGGAAGAGATGC
TTTATAGATTATATAAGCCCATCCTTTGGAGAGGATTAAAGGCCGAAACTCTGAAGTTTCGATCAAAATGCTGCAT
TGTTGTTTGTGAAGCATTTCCTATTAGGGATCCAAACCTTCATGCTATTGAAATGGATAGTGAAATCCAGAAAC
AGTTTGAAGAGCTCTATAGCCTTTTAGAAGATCCTTACCCGATGGTCCGTTCCACAGGGATCCTTGGTGTGTTGTA
AAATAACTTCTAAGTACTGGGAAATGATGCCCCGACCATTCTTATTGACCTCCTGAAGAAGGTGACTGGGGAAC
TGGCATTGACACGAGCTCAGCTGATGTTCTGTTGTTCTGTCTTTAAGTGTCTGCCAATGATTTTGGACAACAAAC
TGAGCCACCCATTGTTAGAGCAGCTCCTTCCAGCTCTCAGATACAGTCTCCACGACAATTCGGAGAAAGTGAGGG
TAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGGGCTGCTAAGTTTTGGAAAAATATGTCCCATGGAGC
ACATTCTGGTTCTGCTGGAAGCTGATTCTCGACCTGTGTCTCGGCGCCTGGTGAGCCTCATCTTTAATTCTTTCC
TGCCTGTGAATCAGCCGGAGGAGGTCTGGTGCAGCGCTGTGTACCCCTGGTGCAGATGAACCACGCCGCTGCCA
GGAGGTTCTATCAGTACGCCCACGAACACACCGCCTGCACCAACATAGCAAAGCTGATTACAGTTATTCGTCATT
GCTTAAATGCCTGTATCCAGAGGGCAGTGAGAGAGCCTCCAGAGGACGAGGAGGAAGAGGACGGAAGGGAGAAGG
AGAATGTGACTGTTCTGGACAAAACACTGTCAAGTAAACGATGTTGCATGCATGGCAGGTTTACTAGAAATCATTG
TGATTCTCTGAAAAAGTATTGACAGAAGTATGAAAAATAATAAGAGGCCAAACTTTACACGATTAACAAGTTTG
CCTCTGTGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTTCATGCTAATGTCTT
TTATGCCGGCCTCTGCTGTCCCCCATTACAGCTGTGGTGTGATTTCACGCTGAGAAGCCGGGAGGAGGGCGCTG
TGGACAAGAGCTACTGCACCTTTGTTGGATTGCCTCTGCTCCTGGGGGCAAGTGGGGCACATTCTGGAGCTTGTG
ACAACCTGGCTGCCCACAGAGCATGCCAGGCCAAGACCAACACAGCTTCTAAAGGTAGGGTGAGATCCATGACA
CACGCCAGTCAAACCTGAATTGGCATTGGTCTACATTGAGTATCTGCTGACTCATCCAAAGAACCAGGAGTGCT
TGCTCTCTGCTCCTCGGAAGAACTTAACCATCTTTGAAAGCCCTTGAAACGTCAAAGGCAGATCTGGAGTCAC
TTCTGCAGACACCGGGTGGGAAGCCTCGTGGCTTCAGTGAAGCAGCTGCCCCGCGAGCCTTTGGTCTCCACTGTC
GCCTGAGCATCCATCTTACGACAAAGTCTGTCTCAGAAGGAAAGGTGATTTGTCCATGTTGGAAGACACTGGCT
TTTGGTTAGAAAGCAAAATTTTATCTTTTATTCAAGATCAAGAAGAAGACTACCTGAAGCTTCATAGGGTCATT
ATCAGCAAATTAATCCAGACCTACCTGACTGTGTGTAAAGATGTTGTTATGGTAGGCCTTGGTGACCATCAGTTT
AGATGCAACTCTTACAGCGGAGTCTTGAATCATGCAACAGTGAAGGGATTTTTTATGTTTCACTTCTTCTG
ACATTCTGAAAGAGATAACTGGAAGTTCCTTGATTGAGAAACAGATTCAGATGAAGAAGTTGCAATGCTGTG
ACACAGTCCAGAAAGTATTTAGAAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGCCGGAAGAAGGCC
TGCGGCTGCTTTATTCTGTTAGAGGCCTCTTCATGAGTTCACTGCTGTTCACTCTCGGCACACAGACACCC
CTGTGCACCGGGGTGTACTTTCTACTCTGATCGCTGGGCCTGTGGTTGAGATAAGTACCAGCTACGGAAGGTTT
CTGACGTAGAAGAGCTTACCCCTCCAGAGCATCTTTCTGATCTTCCACCATTTTCAAGGTGTTTAAATAGGAATA
TAATAAAGTCTTCGAATGTGGTCAGGTCAATTTTGGATGAATTAAGGCATGTGTGGCTTCTAATGATATTGAAG
GCATTGTGTGCTCAGGCTGCTGTGCATATTATCCTGGTTATTAATGCAGGTAAACATAAAAGCTCAAAAGTGA
GGGAGGTTGCAGCCACTGTTACAGAAAACATAAGACATTGGAATTAATTTGGAAGAGGATAGCATTGAAA
GATTTCTCTATGAATCATCATCAAGAACTCTGGGAGAACTTTGAATTCATAACCAAGCCAACATCTCCAGACAT
GTAAAAATAGGGAAAAGTGATTCAAATGAAATGCCTGTGATTTTCTATTGTTTTTAAATGTTAATAACCCATA
TAATAGGGAAAGGTGGGATTTTTTGTGGGAATGTGGGAAGGTGGGGTTATGGAGGAGATAACTCAAACTTC
TTCAATTTTGCTAGTGCCTGCGTAAATAATATATTAAATATAAGGACTCCAGGTATAAATGGTGTAGAAATCC
ATGATTCCAAGAAAAAACACTTTTCTAGCAAACCTGGTGTGTTTTTAAATGACTTTTATATATGTAATATTGCTT
GGAAACTATGAGTAATAAGCAATGACAACAAAAA

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FIGURE 2468

MLLECFININYIKKEEGRRFLSCLFNWNINFIKMIHGTIKNLQGLQKSLMVYIAEIIYFRAWKKASGKILEAIEN
DCIQDFMFHGIHLPRRSPVHSHKVRVLSYFHHQKKVRQGVEMLYRLYKPIILWRGLKARNSEVRSNAAALLFVEAF
PIRDPNLHAIEMDSEIQKQFEELYSLLEDPYPMVRSTGILGVCKITSKYWEMMPPTILIDLLKKVTGELAFDTSS
ADVRCVTFKCLPMILDNKLSHPLLEQLLPALRYSLHDNSEKVRVAFVDMLLKIKAVRAAKFWKICPMEHILVRLE
TDSRPVSRRLVSLIFNSFLPVNQPEEVWCERCVTILVQMNHAAARRFYQYAHEHTACTNIAKLIHVIRHCLNACIQ
RAVREPPEDEEEEEDGREKENVTVLDTLSVNDVACMAGLLEIIIVILWKSIDRSMENNKEAKLYTINKFASVLPEY
LKVFKDDRCKIPLFMLMSFMPASAVPPFSCGVISTLRSREEGAVDKSYCTLLDCLCSWGQVGHILEIVDNWLPTE
HAQAKSNTASKGRVQIHDTRPVKPELALVYIEYLLTHPKNRECLLSAPRKKLNHLLKALETSKADLESLLQTPGG
KPRGFSEAAAPRAFGHLHCRSLSIHLQHKFCSEGKVYLSMLEDTGFWLESKILSFIQDQEEDYLLKLHRVIYQQIIQT
YLTVCCKDVVMVGLGDHQMQLLQSLGIMQTVKGFFYVSLLLDILKEITGSSLIQKTDSDDEEVAMLLDTVQKVF
QKMLECIARSFRKQPEEGLRLLYSVQRPLHEFITAVQSRHTDTPVHRGVLSTLIAGPVVEISHQLRKVSDVEELT
PPEHLSDLPPFSRCLIGIIKSSNVVRSFLDELKACVASNDIEGIVCLTAAVHIIILVINAGKHKSSKVREVAATV
HRKLKTFMEITLEEDSIERFLYESSRSLGELLNS

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FIGURE 2469

CGGGACGGAGGGGGCGGCCCCGCGCTCGGGGCGCTCGGCTACAGCTGCGGGGCCGAGGTCTCCGCGCACTCGC
TCCCGGCCCATGCTGGAGGCGGCGGAACCGCGGGGACCTAGGACGGAGGCGGCGGGCGCTGGGCGGCCCCGGCA
CGCTGAGCTCGGGATGCGGACGCTGCTGCCCTCCCGCGCTGCTGACCTGCTGGCTGCTCGCCCCGTGAACAGCAT
TCACCCAGAATGCCGATTTTCATCTGGAAATACAGGAGGAAGAAACAAAATGTGCAGAGCTTCTGAGGTCTCAAAC
AGAAAAACACAAAGCCTGCAGTGGCGTCTGGGACAACATCACGTGCTGGCGGCCTGCCAATGTGGGAGAGACCGT
CACGGTGCCCTGCCCAAAGTCTTCAGCAATTTTTACAGCAAAGCAGGAAACATAAGCAAAAACCTGTACGAGTGA
CGGATGGTCAGAGACGTTCCAGATTTTCGTCGATGCCTGTGGCTACAGCGACCCGGAGGATGAGAGCAAGATCAC
GTTTTATATTCTGGTGAAGGCCATTTATACACTGGGCTACAGTGTCTCTCTGATGTCTCTTGCAACAGGAAGCAT
AATTCTGTGCCTCTTCAGGAAGCTGCACTGCACCAGGAATTACATCCACCTGAACCTGTTCTGTCTTCATCCT
GAGAGCCATCTCAGTGTGGTCAAGGACGACGTTCTCTACTCCAGCTCTGGCACGTTGCACTGCCCTGACCAGCC
ATCCTCCTGGGTGGGCTGCAAGCTGAGCCTGGTCTTCTGCACTACTGCATCATGGCCAACCTTCTTCTGGCTGCT
GGTGGAGGGGCTCTACCTCCACACCCTCCTGGTGGCCATGTCCCCCCTAGAAGGTGCTTCTGGCCTACCTCCT
GATCGGATGGGGCCTCCCCACCGTCTGCATCGGTGCATGGACTGCGGCCAGGCTCTACTTAGAAGACACCGGTTG
CTGGGATACAAACGACCACAGTGTGCCCTGGTGGGTCTATACGAATACCGATTTTAATTTCCATCATCGTCAATTT
TGTCCTTTTCATTAGTATTATACGAATTTTGCTGCAGAAGTTAACATCCCCAGATGTCGGCGGCAACGACCAGTC
TCAGTACAAGAGGCTGGCCAAGTCCACGCTCCTGCTTATCCCGCTGTTTCGGCGTCCACTACATGGTGTGTCGGT
GTTTCCCATCAGCAICTCTCCAAATACCAGATACTGTTTGAGCTGTGCCTCGGGTCGTTCCAGGGCCTGGTGGT
GGCCGTCTCTACTGTTTCCTGAACAGTGAAGTGCAGTGCAGCTGAAGCGAAAATGGCGAAGCCGGTGCCCGAC
CCCGTCCGCGAGCCGGGATTACAGGGTCTGCGGTTCTCTCTCTCCCGCAACGGCTCGGAGGGCGCCTGCAGTT
CCACCGCGGCTCCCGCGCCAGTCCTTCTGCAAACGGAGACCTCGGTCTATCTAGCCCCACCCCTGCCTGTGCGGA
CGCGGCGGGAGGCCCCACGGTTCGGGGCTTCTGCGGGGCTGAGACGCCGGCTTCTCTCTCCAGATGCCCGAGCAC
CGTGTGCGGCAGGTGAGCGCGGCTCTGACTCCGTCAAGCTGGTGTGCTCACTAAACCCCATACCTGG

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FIGURE 2470A

GTGAACCGTGATGTGAGGGATCTAGGTTGCGCTATCCTTATGAGAATCTAATACCTATTGATCTGTCACTTTCT
CCCATCAGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCAGTATTCTACATTATGCTC
CTACCTCCCAGCAGCCTCTCCAGGCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAAT
GGCTATTTAGGCCCATACCCTACCTCAGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAG
GCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGTCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTT
TCTCAAGTCGACCTACCCAGGCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGG
CACCTCCAGGCCAGCCTCTGCCTCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGC
CCAGCATCTGCCTACTGTGGACCCCCAAGCCAAGCTCCCAACCTTTTCCAGCAGCTTCTACACACCCAACTCCTG
CCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTACAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAA
CCTTTCCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCCTCACACTGGCCTCTCT
ACATCCAGCTCATGCTCAGGTGGCCTCTCCAGGCCAACTCCTGTCCAGGACGTCACTCTCCGGGCCAAAAC
TTACTCAAGTCAGACTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCAAAATCTCCTCAAGTGG
ACCTCTCCAGGCCAGCTCCTGCCTCCTGTGAGCGTCTACAGGCCAACTCTGCCTCATGGGGGCTTCTCCAGG
CCCACCTCTTCTCTTGGCTGGGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCAGTTCTCT
CCAGCTCATGGCGGCCAATGTAGGCCAAAACCTTCTCAAGTCAAACCTCTCCAGGCCACCTTCTGCTTCCCGGT
GGCATGAACAGGCCAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGGCTTTTTCCA
GACCAGCTCCTGCCTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAG
CTCTCCCTCACAGTGGCCCATTTAGGCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCCTGCCTCGT
GGCTGACTCTTGAAGGCCAAAACCTTCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGG
CCAGCCTCTGCCTCACAGTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGC
CTTTCCGCAGCCTCTACAGGCCAGCTCCTGCCTTGAGTGGCCTCTTTAGGCCAAGCTCATGCCCATGGCGAC
TTTTCCAGGCACAGCTTTTGCCTTTTGCAGCCTGTCCAGGCCAGAAATGTCTTAACCTCGGCATCTCCAGGATGA
GCTCATCTCTCCAGTGCCTCTACAGGCCGTCTCCTGCCTCACAACAACCTCCTTTGGCCAACTCCTGCTGAGC
TGCTGGCAGCCTCTGTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCACCTTTGGCCTCCCGGCAGGCT
CAGCAATCAAACATACTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAAC
TGAGCATTTCCTCACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCCAGGCAGCTGCTGCCTCACAATGG
TCTCTTTAGGCCAGCTCATGCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGC
CCAAATTCTCAAAGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTACACAGGCCAGACTCTTAC
CACACAGTAGACCTCCAGGCCACCACTTGCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGGCAGC
CTCTACAGGCCAAGCTCCTGCCTCGCAATTGCCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCC
TAACTTTTGCTTTTTGACGCATACTCCAGTCCCAAACTTCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCTC
CCAAAGGCTTCTGCAGGCCAAAATCATCTGAAGTCACCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGTGTGT
AGGCCAAGCTAATGCCTCACAGCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAAC
TTACTCCAGTTGGCCTCTCCAGACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCAAAATTGTCTCAGGTCAG
CCTCTCCAGGGCCAACCTCTAGCTACCGGTGGCTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTCACACC
CAGCTCTTGCCTCTGAGTGGCCTCTCCAGGAGCAAACTTTCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCT
TCCCGAGGGCATGTACAGGCCAGCCTCTGCCTCACAGCAGACTCTTCACACCCAGCTCTTCCCTGTCTGCGGCC
TCTCCAGTCCAAAGCTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCAGCTCCTCCCTCAGGTGGCCTCTTTCCG
GCCCAACTCATGCCTCTTGCAACGTGCCAAGTGTGAGCTCCTGCCTCACACTGGCCTGTTGAGGCCAGCTCAT
GCCTCTCGTGGCCTCAACGGGGCCATCCCTGCCTGTGCGCGCCTCTACAGGCCGGCCTCTACCTCACAGTGG
GCTCTCCAGGCCACCTCTTCTCACCCTGGCCTCTGGGGCAATGCTCCTCCTCTCGGGAGCCTCTGTGGGCC
CAGCTCCTGCCTCCAGTGGCCTCTGCTGGCCAAGCCGTGCTCAGGCGAGCCTTCCAGGCCAGCTTCTGCT
GCTTTGCATCCTCTCCAGGCCCTGGACTTCTTCCAGTCGGCCTCTCCAGGCCAGCTTCTCTCTCGGGCCTC
TGCAGGCCAGACTGTCTCAAGTCGGCCTGTCCAGGCCAGCTCCTGCCTCCCGCGGCCTCTGTCAGGCCCAAG
TCGTCTCAAGTTGGCCTCCCCAGGCCAGCAAGGCCCTCTCGGGCGCCTTTCCGGGTGCAAAAGTTCTCTCAGT
CAGCCTCTCCAGGCCAGCTCCTCTGCCTCCAGTGGCCTCTTCCGGCCAGGCCAGCTCATGCTCCTCCGGCGG
CCTTCCAGGCCCTGCTTTGACTTTCCGTGGCCTCTGCAGGCCTCGACAAGGCCAGGCCTCCTGCCTCCCAAAG
GCCTGCACAGGCCAGCCTCTGCCTCACAGCAGACTCTCCAGGCCAGCTAGCTCTGCCTCACTGCGGCTTCCC

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FIGURE 2470B

GAGTCCAAAGCTCCTGCCTCTCAGCCGCTTCGGCAGGCCAGCTCCCGCCTGCCAGTGGCCTCTTCAGGCCCATG
GGGCTCATTCTCACAACGGCCTTTCCAGGCCAGTTTTCCCTTCCGGCGGCCTCTTGGCCTCTAATTTGTTA
TCTTTGGGTATAAATCCCAAATATTGAATTTTGAATATTTCACCATT

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FIGURE 2471

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA
CTTTTGGCGGCCTCTTCAGGCC

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FIGURE 2472

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA

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FIGURE 2473

ATGTTGCCAATAACACAGATGAAGAGACTGGGGGATGGCACTATCACTGCTGCTGTACTGAAGGTTAGCAAAGGT
GCTAATCCAGTGGAAATCAAGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTCT
AAACCTGTGACCAAACCTGAAGAAATTGCACAGGTTGCTACAATTTCTGCAAATGGAGACAAAGAAATTGGTAAC
ATCATCTCTGATGCAATGAAAAAGTTTGGAAAGAAAGGGCATCATCACAAAAATTTCTAGTGTCCAGTCCATTGTA
ACTGCTCTTGAAATTGCCAATGCTTACTGTAAGCCTTTGGTCATAATTGCTGGAGACATTGATGGAGAAGCTCTA
ACTACACTCATCCTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAAGCTCCAGGGTTTGGTGACAAT
AGAAAGAACCAGCTTAAAGATACGGTTATTGCTACTGGTGGAGAAGTTGGAGAGGTCACTGTGATCAAAGATTAT
GCCATGCTCTTAAAAGGAAAAGGTAACAAGTCTCAAATTGAAAAATGTGTTCAAGAAATCATTGACCAGTCAGAT
GTCACAACTAGTGAATACGAAAAGGAAAACTGAGTGGAGAACTTTCAGATGGAGTAGCTGTGCTGAAGCTAAT
GAAGATAAAATAATTGGTATAGAAATTATTAAAAGAACTCAAAATTCAGCAATGACAATTGCTAAGAATGCA
GGTGTGATGGATTTTGTAGTTGAGAAAATTATGTAA

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FIGURE 2474

MLPITQMKRLGDGTITA AVLKVS KGANPVEIKRGV MLAVDAVIAELKKQSKPVT KPEEIAQVATISANGDKEIGN
IISDAMKKFGRKGII TKISSVQSIVTALEIANAYCKPLVIIAGDIDGEALT TLILNRLKVGLQVVAVKAPGFGDN
RKNQLKDTV IATGGEVGEVTVIKDYAMLLKGKGNKSQIEKCVQEIIDQSDVTTSEYEKEKLSGETFRWSSCAEAN
EDKIIGIEI IKRTLKIPAMTI AKNAGVDGFLIVEKIM

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FIGURE 2475

ATGTACTGGGACATCGTGTCTTTGGAGACAGCTATACCCCACTTGTCCATTCTGCTGAGGCCCACAAATGCCATC
ACCCAGAAGCCCTTCACATCCACTGGGGCCACAGCAGGATACAGTCTGTTGCTGGTCCAGCAGCCTGATAAAATC
ATTGTCTCTCCACCCTGATTCTACAGGAGACTACTCACCCCATTAACCTCAAAAACCTCTTCATGAGGATGGTG
ACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTC
CAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCAGAAGTGGTTGTTTCCCTT
GCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGCG
TGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTGA

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FIGURE 2476

CTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCTGCCTAGCTAGAGGATCTGTGACCC
CAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTCCAGG
CAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTCCCTTGCA
GGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGCCTGCTATTGCAGAATACCAGCGTGCA
TTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTGCAGAA
AAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTCAATTT
CCTTTCCTCATCCCAAATAAATGCCTTGGTACAAGAAAAG

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FIGURE 2477

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHFGSRKNMACYCRIPACIA
GERRYGTCTIYQGRLWAFCC

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FIGURE 2478

CCTTGCTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCCTGCCTAGCTAGAGGATCTGT
GACCCAGCCATGAGGACCCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGCCACT
CCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTTCCT
TGCTATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGC
GTGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGSCTTG
CAGAAAAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTC
AATTCCTTTCTCATCTCAAATAAATGCCTTGTTAC

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FIGURE 2479

MRTLAILAAILLVALQAQAEPLQARADEVAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRIPACIA
GERRYGTCTIYQGRLWAFCC

2697/6881
FIGURE 2480

ATGCAGGTCTGCAACTGCAGGTGCCTCTCACCTGGTGACCTGCAGGAAGATGGAGGAGCATATTGGGCACAGTGC
TCGGTTTGGGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCATAGAGTGTGCCCTCTGGCCCAGCTG
ATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTATAGACAGCGACATGCAGACCCTGGTCTATGAGAAC
TACGACAAGGAGACTATCGGGGTGCAACCTGGCTGGGGCGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCCTG
GCCACGGGCAAGGGACAGCGACCGCCTGGGCCAGGACAGGTGAGAGCGGCGCAGTCCCGGGCCCCGGCGTGTCCGC
GCTGCGCGGGAGAGGCCAGCAGAGGGCGCCAGAGAGCCAGGAGCGGCCCCGCGGAGGAGCCCGCGCCAGCCGGATG
CCCAGCTCCGCGCCGCGCGGACCCAACGAGCCCGCGCTCAGACGCCCCAGCTCCGCCGAGAGGCCGCTCGCGCCG
GGCAGAGCCCCCTGGAGCCATGGCCAGCCCTTCCGGCAGCTCCGAAGCCACTGGCAAGCCCCGAGGCAGGGATGGC
CGGCCCAGGAGGGAGGAGGACGACGTCCCTCCGAAGAGAAGAGGCTACGGCTGTTGCTGGAGGGGGGAAGCGCA
CAGCCCAGGACTGCGAGGACGGGGAGGACGCGCTGCGGCCGGGCAGGGAGGAGACCGGCACCTAG

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FIGURE 2481

MQVCNCRCLSPGDLQEDGGAYWAQCSVWGAHFDPEVYLDKLHRVCPLAQLMDSETDMVRQIRAIIDSDMQTLVYEN
YDKETIGVQPGWGGEEVQGLARAGLATGKGQRPPGPGQVRAAQSRARRVRAARERPAEGAREPGAARGGARASRM
PSSAPRGPNEPALRRPSSAERPLAPGRAPGAMASPSGSSEATGKPRGRDGRPRREDDVPPEEKRLRLLEGGSA
QPEDCEDGEDALRPGREETGT

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FIGURE 2482

GAGAGTCGCGCCCCGGGAGTCCGCGCCTGCGCCAGGATGGAGTTTCGTGAAATGCCTTGGCCACCCCGAAGAGTTC
TACAACTTGGTGCGCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCCCAAGATGGACCAGGACTCGCTCAGCAGC
AGCCTGAAAACCTTGCTACAAGTATCTCAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGG
GAAATGCGCAACGCAGTGTGCATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATC
AGTGTGGAAAAGAAGGTCCCGCTGTTACACAACCTTTCACTCTTTTCTTTTACCAACCAGACTGGCGGTTTCATGGAG
AGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAATCTGGCTGAGAAA
TACCAAACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATGGCAGAGTTTTTTGGATAAGCATGTGACC
TCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCGGAATTGGCCTTTCCCGTCTTTTCTCA
GCCTCAGAGTTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTTTTGCAGAAA
ACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGG
TATGTTAAGAAGTTAGGGGATTTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACTTATA
ACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTTCGAGACTCAGAAACCAGAGTGTGTTTAACTTC
TGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCA
GTGAAGATTTCGGAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATA
TATCAGTATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTTCTAGCAAAACAAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCACTGTCAGTGATTTCCCGAAGCCACTACTCCCCATCTACCTGTCTG
TTTGTATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTTACG
ACTGGAGAACTGATCCCAAATTTGTCCATAGCTGAAGTCCACCATAAAGTGGATTTACTTTTTTTCTTTAAGG
ATGGATGTTGTGTTCTCTTTATTTTTTCTTACTACTTTAATCCCTAAAAGAACGCTGTGTGGCTGGGACCTTTA
GGAAAGTGAAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGTGCCTCATCCAGCAACCTGTCTTGTG
GGTGATGATCACTGTGCTGCTTGIGGCTCATGGCAGAGCATTCAAGTGCCACGGTTTAGGTGAAGTCGCTGCATAT
GTGACTGTGATGAGATCCTACTTAGTATGATCCTGGCTAGAATGATAATTAAAAGTATTTAATTG

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FIGURE 2483

TCCGGCAACGCCAACCGCTCCGCTGCGCGCAGGCTGGGCTGCAGGCTCTCGGCTGCAGCGCTGGGCTGGTGTGCA
GTGGTGCAGACCACGGCTCACGGCAGCCTCAGCCACCCAGATGTAAGCGATCTGGTTCCCACCTCAGCCTCCCGAG
TAGTGGATCTAGGATCCGGCTTCCAACATGTGGCAGCTCTGGGCTCCCTCTGCTGCCTGCTGGTGTGGCCAAT
GCCCCGAGCAGGCCCTCTTCCATCCCCGTGCGGATGAGCTGGTCAACTATGTCAACAAACGGAATACCACGTGG
CAGGCCGGGCACAACCTTCTACAACGTGGACATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCCC
AAGCCACCCCAGAGAGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCCA
CAGTGTCCCAACCATCAAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGCTTCGGGGCTGTGGAAGCC
ATCTCTGACCGGATCTGCATCCACACCAATGCGCACGTGAGGCTGGAGGTGTGCGCGGAGGACCTGCTCACATGC
TGTGGCAGCATGTGTGGGGACGGCTGTAATGGTGGCTATCCTGCTGAAGCTTGGAACTTCTGGACAAGAAAAGGC
CTGTTTTCTGGTGGCTCTATGAATCCCATGTAGGGTGCAGACCGTACTCCATCCCTCCCTGTGAGCACCACGTC
AACGGCTCCCGGCCCCCATGCACGGGGGAGGGAGATACCCCAAGTGTAGCAAGATCTGTGAGCCTGGCTACAGC
CCGACCTACAAACAGGACAAGCACTACGGATACAATTCTACAGCGTCTCCAATAGCGAGAAGGACATCATGGCC
GAGATCTACAAAACGGCCCCGTGGAGGGAGCTTTCTCTGTGTATTCCGACTTCCTGCTCTACAAGTCAGGAGTG
TACCAACACGTCACCGGAGAGATGATGGGTGGCCATGCCATCCGCATCCTGGGCTGGGGAGTGGAGAATGGCACA
CCCTACTGGCTGGTTGCCAACTCCTGGAACACTGACTGGGGTGACAATGGCTTCTTTAAAATACTCAGAGGACAG
GATCACTGTGGAATCGAATCAGAAGTGGTGGCTGGAATTCCACGCACCGATCAGTACTGGGAAAAGATCTAATCT
GCCGTGGGCTGTGCTGCCAGTCCCTGGGGCGAGATCGGGGTAGAAATGCATTTTATTCTTTAAGTTCACGTAAG
ATACAAGTTTCAGACAGGGTCTGAAGGACTGGATTGGCCAAACATCAGACCTGTCTTCCAAGGAGACCAAGTCCT
GGCTACATCCCAGCCTGTGGTTACAGTGCAGACAGGCCATGTGAGCCACCGCTGCCAGCACAGAGCGTCCTTCCC
CCTGTAGACTAGTGGCGTAGGGAGTACCTGCTGCCCCAGCTGACTGTGGCCCCCTCCGTGATCCATCCATCTCCA
GGGAGCAAGACAGAGACGCAGGAATGGAAAGCGGAGTTCCTAACAGGATGAAAGTTCCTCCATCAGTTCCCCAG
TACCTCCAAGCAAGTAGCTTTCCACATTTGTACAGAAATCAGAGGAGAGACGGTGTGGGAGCCCTTTGGAGAA
CGCCAGTCTCCCAGGCCCCCTGCATCTATCGAGTTTGCAATGTCAACCTCTCTGATCTTGTGCTCAGCATGAT
CTTTAATAGAAGTTTTATTTTTTCGTGCACTCTGCTAATCATGTGGGTGAGCCAGTGGAAACAGCGGGAGACCTG
TGCTAGTTTTACAGATTGCCTCCTTATGACGCGGCTCAAAGGAAACCAAGTGGTCAGGAGTTGTTTCTGACCCA
CTGATCTCTACTACCACAAGGAAAATAGTTTAGGAGAAACCAGCTTTTACTGTTTTTGAAAAATTACAGCTTCAC
CCTGTCAAGTTAACAAGGAATGCCTGTGCCAATAAAAGTTTCTCCAATTGA

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FIGURE 2484

MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRMFT
EDLKLPAFDAREQWPQCPTIKEIRDQSGSCSWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMCGDGC
NGGYPAEAWNFWTRKGLVSGGLYESHVGC RPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHY
GYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHTGEMMGHAIIRILGWGVENGTPYWLANSW
NTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

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FIGURE 2485

CTGGGAAGCAGAGTGTCTGGATGGAACCTGAGCTGGGTCTCTGACTCACTTCTGACTTTAGTTTTTCAAGGGG
AACATGGCAAAGGTGTTTCAGTTTCATCCTTGTTACCACCGCTCTGATAATGGGCAGGGAAATTCGXXXXXXXXXX
XX
XX
XXXAGATTTTCAATGATGGGTATAAGCTCAGTGGATTTACAAAATC
AAACCTCTCCAGAGCCTAGCAGAATTTTCTGTTTATTGTGACATGTCCGATGGAGGAGGATGGACTGTAATTCAG
AGACGATCTGATGGCAGTGAAACTTTAACAGAGGATGGAAAGACTATGAAATGGCTTTGGAAATTTTGTCCAA
AAACATGGTGAATATTGGCTGGGCAATAAAATCTTCACTTCTTGACCACTCAAGAAGACTACACTTTAAAAATC
GACCTTGCAGATTTTGAAAAAATAGCCGTTATGCACAATATAAGAATTTCAAAGTTGGAGATGAAAAGAATTTT
TACGAGTTGAATATTGGGGAATATTCTGGAACAGCTGGAGATTCCTTGCGGGGAATTTTCATCCTGAGGTGCAG
TGGTGGGCTAGTCACCAAAGAATGAAATTCAGCACGTGGGACAGAGATCATGACAACATATGAAGGGAACGCGCA
GAAGAAGATCAGTCTGGCTTGTGGTTTAAACAGGTGTCACTCTGCAAACCTGAATGGTGTATACTACAGCGGCCCC
TACACGGCTAAAACAGACAATGGGATTGTCTGGTACACCTGGCATGGGTGGTGGTATTCTCTGAAATCTGTGGTT
ATGAAAATTAGGCCAAATGATTTTATTCCAAATGTAATTAAATTGCTGCTGTTGGGCTTTTCGTTTCTGCAATTCA
GCTTTGTTTAAAGTGATTTGAAAAATACTCATTCTGAACATATCCATGCGCAATCATGATAACTGTTGTGAGTAG
TGCTTTTCATTCTTCTCACTTGCCTTTGTTACTTAATGTGCTTTCAGTACAGCAGATATGCAATATTCACCAAAT
AAATGTAGACTGTGTT

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FIGURE 2486

MAKVFSFILVTTALIMGREISXX
XXXXXXXXXXIFNDGYKLSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRRSDGSENFNRGWKDYENGFGNFVQK
HGEYWLGNKNLHFLTQEDYTLKIDLADFEKNSRYAQYKNFKVGDEKNFYELNIGEYSGTAGDSLGNFHPFVQW
WASHQRMKFSTWDRDHDNYEGNCAEEDQSLWFNRCHSANLNGVYYSGPYTAKTDNGIVWYTWGWWYSLKSVVM
KIRPNDFIPNVI

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FIGURE 2487

GGGACAGAGGAGACAAGATGGCGCTGCGGGCGATGCGGGGGATTGTCAACGGGGCCGCACCCGAGCTACCCGTGC
CCACCGGTGGGCGCGGTGGGAGCTCGGGAGCAGGCGCTGGCAGTCAGTCGGAACCTCTCCAGCCTCGCC
TCACATACAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGATCATGTTAAGTTTCCAGGTATGCTG
AAATTGTCCATTTGACCTTACCGGATGGCACAAAGAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGGCAG
TAGTTCAGGTATTTGAAGGGACTTCAGGTATAGATGCTAAGAAAACGTCTGTGAGTTTACTGGGGATATTCTCC
GAACACCGGTGTCTGAGGATATGCTTGGTCGGGTATTCAATGGATCGGGAAAACCCATTGACAGAGGTCTGTG
TACTGGCCGAAGACTTCCTTGATATCATGGGTACGCCAATCAACCCTCAATGTCGAATCTACCCAGAGGAAATGA
TTCAGACTGGCATTTCGGCCATCGATGGGATGAACAGTATTGCTAGGGGGCAGAAAATTCCTATCTTCTGTCTG
CTGGGCTACCACACAATGAGATTGCAGCTCAGATCTGTGCGCCAGGCTGGTTTGGTAAAGAAATCCAAAGATGTAG
TAGACTACAGTGAGGAAAATTTGCAATTGTATTGCTGCTATGGGTGTAAACATGGAAACTGCCCGGTCTTCA
AATCTGACTTTGAAGAAAATGGCTCAATGGACAATGTCTGCCCTCTTTTGAAGTTGGCTAATGACCCAACCATG
AGCGAATTATCACTCCTCGCTGGCTCTAACCACAGCTGAATTTCTGGCGTACCAATGTGAGAAACATGTATTGG
TTATTCTAACAGACATGAGTTCTTATGCTGAAGCACTTCGAGAGGTTTCAGCAGCCAGGGAAGAGGTACCTGGTC
GACGAGGTTTTCCAGGTTACATGTATACAGATTTAGCCACGATATATGAACGCGCTGGGCGAGTGGGAAGGGAGAA
ACGGCTCGATTACTCAAATCCCTATTCTAACCATGCCTAATGATGATATCACTACCCCATCCCAGACTTGACTG
GCTACATTACAGAGGGGCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTTATCCACCTATCAATGTGC
TGCCCTCACTATCACGGTTAATGAAGTCTGCTATTGGAGAAGGGATGACCAGGAAGGATCATGCCGATGTATCTA
ACCAGCTAGTATGCGTGTCTATGCTATTGGAAGGATGTGCAAGCCATGAAAGCTGTCGTTGGAGAAGAAGCCCTT
ACCTCAGATGATCTTCTACTTGGAAATTTCTGCAGAAGTTTGAGAGGAACTTCATTGCTCAGGGTCCCTACGAA
AATCGCACTGTCTTTGAGACTTTGGACATTGGCTGGCAGCTACTCCGAATCTTCCCCAAAGAAATGCTGAAGAGA
ATCCCTCAGAGCACCTCAGCGAATTTTACCCTCGAGACTCTGCAAAGCATTAGCTGCTGCTTCTGCATTGCTCC
GCGCTCTTGTGAAATACTGGTCTGTGTTTTCTTTATTCTTTTGCACTCTCGGTTCCACCTTTGTGTTGGAGTTT
ACCATGTTACCCTGTAATTAATAAACAAGAAATAGGTAACATATTGTGCCAGTGTGCAACGTTTTAACTGCTAA
CAGACCTTAAATATCCCCCTACCTGGGTCTCAGTGCTATGTTTAAAGTGCTGCAGGGATGGAGTGGCGTTTTT
TTATTGCTGTATGTATTGTACATAGTGGAGTAGTTAGTTACCTGATAACAGTCTTGTTATTTGGGTCTCTTAGAC
CTTACCTCTCAACTCCCTCAAGAGTACCACTCTGAAAGTTATAATGCTTTGGTCTCTACATTAGGGGCAAGATC
CAGTCTGAGAGAAGTCTCCTTTGAGAAGGGCCAAGAGGCTCTTTCCTGAGTGTGCTTTGCTTTGCTTTGCTTTGCT
CCTGTATTGCTGGGCTGTGCTGCTGCTCGAAGCAGATGGTTTTGACTGTCTTTTGTCTTTCTATATAATGAA
TAGATGAGTGAAAGGAGTTTTCTTTTCTCTTTAGTACTTACGTATTGGGATTCTGTGTCTTACAGCTCTCCCT
CTCCAAATAATACACAGAATCCTGCAACTTTTGCACAGCTGGTATCTGTCTGGTAGCAGTGAGACCCCTTGCT
TGGTGATCCTTACTGGGTTTCCAAGCAGAGGAGTCACATGATTACAATTGCCAGTAGAGTTGTTGTTTGGGGTAC
AAGATGAGAAGAAAGAAAAACCTACAGCCTTTCTACATTCTGACATGCTAACAGTGGTTTAAGTTTCTAAAGTGT
TTACCAGATGCTGAAGGCAAGGGGAGGGAGCAGAAGCACTTATGTTTACGGATATTTTAAACTCTGTAGAGAGC
AGCCTTTGAAAATCCCCAATTTGGTTCTGCTTTTACCTCTCTACCTTTTCAGGGTAATCTTTGTGGCACAA
ACGATAGCATTTCCAAGCTTTAGAGTTTTCTGAATTC

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FIGURE 2488A

CTGGCCGGGAGGCTGGAGCCCAGCAGCAGCGCGCGCGCGCGCTCGTCCCAACTTGCAGGCGCGGAGGGACCC
CTGACATTTCACTAAATGAGCGTGCTCAGCAGGAAGAGATGTGTTCTCACGCTAGAAGCCACCCCGTCACATG
TAGTGGTGTCCCGTTTAAATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGCGTTGTGG
TGGGGGACAACGCCGTGGGTAAGACCAGGCTCATCTGTGCCCGCGCTTGCAATGCCACCCTCACCCAGTACCAGC
TGCTGGCCACGCATGTGCCACAGTATGGGCCATCGACCAATATCGTGTGTGCCAGGAGGTGCTGGAACGCTCCC
GAGACGTGGTAGATGATGTGACGCTCTCTGTGCGCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCGCT
TTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCCTCCACCATGTCAAGA
CCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCACCTGTCTATCTTGGTGGGCTGCCAGTTGGACCTGC
GCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCTTGGCTAGGCCCATCAAACCTAATGAAATCCTGC
CCCCAGAGAAGGTCGGGAGGTGGCCAAGGAGCTGGGCATCCCTACTATGAGACCAGCGTGGTGGCCAGTTCCG
GCATCAAGGACGCTCTTGACAACGCCATCCGAGCTGCACTCATCTCCCGCCGCCACCTGCAGTTCTGGAAGTCCC
ACCTCCGCAATGTGCAGCGGCCTCTGTGTGACGCCACCTTCTTACCCCCAAGCCACCGCCCCCGATCATCGTGG
TGCCCGACCCCTCCCTCCAGCAGCGAGGAGTGCCCCGCCACCTCCTGGAGGACCCGCTCTGCGCGGACGTCATCC
TGGTGTGTGAGGAGCGGGTGCATCTTTGCCACAAAGATCTACCTCTCCACCTCCTCCTCCAAGTTCTATGACC
TGTTCTCATGGACCTGAGTGAGGGGGAGCTGGGGGGCCCTCGGAGCCAGGGGGACCCACCCAGAGGACCACC
AGGGCCACTCTGATCAACACCACCACCATCACCACCACCACCATGGGCGAGACTTCTGTCTCCGAGCAGCCAGCT
TTGACGTGTGCGAGAGCGTGGATGAGGCTGGGGGCTCCGGTCTGTGTCCTCCGTCCTTCCACCAGCGACGGGA
TCTTACGGGGCAACGGAACAGGGTACCTACCGGGCAGGGGTGCTGTGCTGTCTTCTGAGCCGAGCTTTTGTGA
GCATCCAGGAAGAGATGGCAGAAGATCCTCTACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTT
CCATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGGAGCTAGATGAGAACGAGCGTGACC
TCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTGCGCATGATGGTGGCCAACATTCTCAACA
ATGAGGCCTTCATGAACCAGGAGATCACAAGGCCTTCCACGTCCGCCGACCAACCGGGTTAAGGAGTGCTTGG
CAAAGGCACCTTCTCAGATGTGACCTTCATCTGGATGATGGCACCATCAGCGCCCAAGCCCTGTTGATTT
CCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTGTGGAGAGCTCCACCCGGGAGGTGGTGTTCCT
ACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACCGGCATGTTACCTCCAGCCCCGACCTGG
ATGACATGAAGCTCATATTCTAGCCAACCGCCTTGCTGCCACACCTGGTTGCCCTCACAGAGCAGTACACAG
TGACCGGGCTGATGGAAGCGACCCAGATGATGGTGGACATCGATGGGGACGTCCTTGTGTTCTGGAACCTGGCTC
AGTTCCACTGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGCA
AGTTCCCCGAGACATGAAGGCCATGTCCCCAGAAAACCAGGAGTATTTGAGAAGCATCGGTGGCCACCTGTGT
GGTACCTGAAGGAGGAAGATCATTACAGCGGGCAGGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGC
GGCAGCCCCAACGGCGTTGGCTCTTCTGGAACAGTCCATCTCCCGTCTTCTCGGCAGCCTCCTCCTCATCCC
CATCTTCTCCTCGGCTGTGGTCTGAGATGCTGCCACCCTCTTCTGACCCTGTGCTGTTGTCCCCATCCGCCTT
CACCCCTCTGCTCTTCCGCATCACCCATCCACCTTACAGGGACAGGGGGCCACGTAACCAGGACCCAGAGGG
TGGAGCTCTTCTTACCAGCCACCCTGGCTCAGCCAGAGAGGAGCTGAGCCCTGTGGAGCAGAACGGGAACCACCT
GCAGAGGTCCCCAGACCCAAAGCAGGACGGGAGACAACCTGCTTGGAGGAGCGAAGAGCCCTGGCATTATCTCT
GGGTTTGAGAGCCCTAGAGTCAAAGGGAAAGCCTCCAGCCTCCAGGGCTTCTCTGTGTGCTTGGTTGCTGCTC
TGCCAGGGAGGACGGCCACTCCAGCAAGCAGAAGTGATCCTCGAGGGTCTGCCCCGTGTGGCCATATCTTT
CCACCGACGGACTTGAGTGTGTCATTGTTTGTGGGCATTTCCACACGAAGCCTACTCACACCTCACTGGAGA
AGTCAGGGTAGAAATTGAGCCTTCAGAGCCCAACTCAAGCTTCTACATCTGGGGTGACGCTGCAAAAGGCCAG
ACGTGGAAGGCCGTGATCCTGCCAGTGTCCCTCCGTCCAGGGGGCTGTGCTGGCACAGACCTGAGAATGGGGA
CACAGGTCAATCAGAGCTCCAGGCCTGGAAGCAGTGCCCTTGGTGCAACAAGAACTTCTCCCTCACCCCTCC
TTTACCCTCAGATTGAGAGATGGTAACCAAGGAAGCAGCTGGGACAGGTGGAGAAGGAAGTAGGAATGAGTGCA
CGGCGACCCCGTCTCCTCAGGGCCCTCCCTGCTCTGGGTGGCACTGCTTTTATAGGGTGGGGGCAAAATTAG
CAAAAAACAAAAACCAATGACAACCAACTGAAACCGAAACGAAAAATCAACAACACTCTGTCTCTATCCCTC
CAAAGAATGAAATCAGAAAAAGCCCTGCCTAGCTCACATTTCTATAACAGAGGCCCCATGATGAGGAGGTG
AAGATTTAGGTTGCAGAATCGACTCCAATGCCTTTACAGAAAGGACTCGGCATTTCTCTGACTGCGGAGGCCCTG
ACCCTGCCAGCTGGCTCCGAGGGCAACACAGGGGCTGGCCTCTAGAGGGCTGGTGATTGAGGGGCGGGGCTGG
CGGCAAGAGGGGTTTGGTCTCGGGGCTTAAATGGCACCAGACTCTTGCTTTTGCCCATCTGGAGACTGCAGGCT

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FIGURE 2488B

CCCTTCCTTACCCTCAGAGAGTGCTTATGGTGGGTGTTTTTGC GGGGCTGCAATAGGGGCCAAAAGTCAGGGAAA
GGGGCACTGACCTGTAGTGAAGGCCACAGGACACAGCCTTATTACTGCTGGGGTGGGATAAGGGGAAGGAGAAG
AGGGAGAAATGGAGCAGGAGGAAAAGCAGAGTTGGTCTAGAGAGGAGGAGGGCGGGCTGGAGGAATGTGGGGGAT
TGAAACTAGCTCCCAGCCCCCATGGGGCAGCAGCTGGGCCACAATTGCCCTTTCCGTTTTCTAACCCCGACTCA
GATTTACCAACCCACACTCTTTTTAGGTGTAAAAGATGGAGTCCCACGGAGGAGGGGCAGAGCCAGGAGGCAGTG
GGGCTGTGGGCTCAGAGCTCAGGAGTCGCCTTACCTGAGAGAGATGTTCTAGCTGAGAGGGCCTGGCCCTGGGGT
GGGCTCCAGGAAAACGCTGGTTAGGCCTGGGATTGAGCTAACCTGAAACAAAGGTAGTAGGCAGGACCTAATGAC
CAGAGGTTAAATCCTCATCAAGAGAGACCAGGCGGCTGGAGGACAAGCGGCTCTAACCTGGGGGCGGCCATGTT
GTCCAGGCCCAGGCCCCCTCAGGACTGTGGCTGCCTCCCCTCCACGGCCTCCAGGGCGGCTGGCTGGAAAGCCAC
GCGTATGCTGCCCTCTACAGGCTGCTCGGCCTCCCTGCAGCTCAGCGCAGCCCAGGGCTCCAAGTGAGGCCCAGA
AGCCCATGGGCAGGGCTGGGGGGACGAAGGGGAACCCGGAGCACCTCCACTTCTAGGGAAGATGGACAGCGTGG
GGGCACACCTGGGCCTCCCGGAAGCTGTGGACGAAAGGGAGAGCGGGTCCTCCAGGGCAAGGGGAACGGGAAATA
GGTCTCCTAGGTGCTTGAAGCGCTGAGCAACCTGGGTACCTGGTGGGGATGCAGGGAAGGCCGGGGCAGAGAAA
GCGAAGGTCGACCCAGGGCTGTAGGAAGCCATAGGAGAGTGACCACGGGATTCCCTGAGAAACAGGGCCGGCCCC
CCAACTTCAGGGACCCACCGCCCATTTCCCCGAGAGCTGTCGGAACAGATGCAACCCGGCAGCCCAGAGAACTCT
CCTGGGAGGCTGTGGGTGAGCCAGGCCAACATTGGTGTCCCTGTCCCCAGAGGGAGGAGCAGGCAGGAGAGAGAG
GGGAAGGAGGTATGAATCCAGTCCCCAGGAACCTAGCTCTTTAACTCTGGGGAGTCGGATTACAGGAAACACCC
CCAGGAGGCCAAGCCTGAAAACAGAGGGGAGGGAGGAAGGAAGGAGTCCCAGCAGGAGCACAGCCCTGGTTTCCT
GTCACTCAGAGCTGATTCACAGGAGGAGGGGAGGTTGGGGGGCGGGAGACAAAACACACCTCTTTTATATAA
GGTTTCATATTTAATTTGGTCATGGATTCAATAATACATAAGTATTTTGAC

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FIGURE 2489

MDSMDYERPNETIKCVVVDNAVKGTRLICARACNATLTQYQLLATHVPTVWVIDQYRVCQEVLEERSRDVVDD
VSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHVKTMMWYPEIKHFCPRAPVILVGCQLDLRYADLE
AVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYETSVVAQFGIKDVFDNAIRAALISRRHLQFWKSHLRNVQ
RPLLQAPFLPPKPPPIIIVVPDPPSSSEECPAHLEDPLCADVILVLQERVRIFAHKIYLTSSSKFYDLFLMDL
SEGELGGPSEPGGTHPEDHQGHSDQHHHHHHHHHGRDFLLRAASFDVCEVDEAGGSGPAGLRASTSDGILRGNG
TGYLEPGRGRVLSSWSRAFVSIQEEMAEDPLTYKSRLMVVVKMDSSIQPGPFRAVLKYLYTGELDENERDLMHIAH
IAELLEVFDLRMMVANIILNNEAFMNQEITKAFHVRRTNRVKECLAKGTFSDVTFILDDGTISAHKPLLISSCDWM
AAMFGGPFVESSTREVVPYTSKSCMRVLEYLYTGMTSSPDLDMDKLIILANRLCLPHLVALTEQYTVTGLME
ATQMMVDIDGDVLVFLAQLAQFHCAQLADWCLHHICTNYYNNVCRKFPRDMKAMSPENQEYFEKHRWPPVWYLKEE
DHYQRARKEREKEDYLHLKRPKRRLFWNSPSSPSSSAASSSSPSSSSAVV

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FIGURE 2490A

GGTCTCAGCTGAGTCTGCTCTGATCACCCAACAAGACCTAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAG
GTCCAGCCCCCTCAGAGGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATTGCATCTCCTGCAA
ATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGGCGTGCACCAGGTGTGATTCAAGGTGA
AGTGGAGCTAAGTCCCTGCACCACGACCAGAAACACAGTGTGTCAAGTGCAGGAAGGACACCTTCCGGGAAGAAGA
TTCTCCTGAGATGTGCCGGAAGTGCCGCACAGGGTGTCCCAGAGGGATGGTCAAGGTGCGGTGATTGTACACCCTG
GAGTGACATCGAATGTGTCCACAAAGAATCAGGTACAAAGCACAGTGGGGAAGCCCCAGCTGTGGAGGAGACGGT
GACCTCCAGCCCAGGGACTCCTGCCTCTCCCTGTTTCTCTCTCAGGCATCATCATAGGAGTCACAGTTGCAGCCGT
AGTCTTGATTGTGGCTGTGTTTGTGTTTGAAGTCTTTACTGTGGAAGAAAGTCCTTTCCTTACCTGAAAGGCATCTG
CTCAGGTGGTGGTGGGGACCCCTGAGCGTGTGGACAGAAGCTCAACAACGACCTGGGGCTGAGGACAATGTCTCTCAA
TGAGATCGTGAGTATCTTGCAGCCCCACCCAGTCCCTGAGCAGGAAATGGAAGTCCAGGAGCCAGCAGAGCCAAC
AGGTGTCAACATGTTGTCCCCCGGGGAGTCAGAGCATCTGCTGGAACCGGCAGAAAGCTGAAAGGTCTCAGAGGAG
GAGGCTGTGTTTCCAGCAAAATGAAGGTGATCCCACTGAGACTCTGAGACAGTGTCTCGATGACTTTGCAGACTT
GGTGCCCTTTGACTCCTGGGAGCCGCTCATGAGGAAGTTGGGCCCTCATGGACAATGAGATAAAGGTGGCTAAAGC
TGAGGCAGCGGGCCACAGGGACACCTTGTACACGATGCTGATAAAGTGGGTCAACAAAACCGGGCGAGATGCCTC
TGTCCACACCCTGCTGGATGCCTTGGAGACGCTGGGAGAGAGACTTGCCAAGCAGAAGATTGAGGACCACCTTGT
GAGCTCTGGAAGTTTATGTATCTAGAAGGTAATGCAGACTCTGCCATGTCTTAAGTGTGATTCTCTTCAGGAAG
TCAGACCTTCCCTGGTTTACCTTTTTTCTGGAAGAAAGCCCACTGGACTCCAGTCAGTAGGAAAGTGCCACAATT
GTCACATGACCGGTACTGGAAGAAACTCTCCCATCCAACATCACCCAGTGGATGGAACATCCTGTAACCTTTTAC
TGCATTGGCATTATTTTTATAAGCTGAATGTGATAATAAGGACACTATGGAATGTCTGGATCATTCCGTTTGT
GCGTACTTTGAGATTTGGTTTGGGATGTCAATTGTTTTACAGCACTTTTTATCCTAATGTAAATGCTTTATTTA
TTTATTTGGGCTACATTGTAAGATCCATCTACACAGTCTGTTGTCCGACTTCACTTGATACTATATGATATGAACC
TTTTTTGGGTGGGGGGTGCAGGAGTCACTCTGTCTCCAGGCTGGAGTGCAATGGTGAATCTTGGCTCACT
ATAGCCTTGACCTCTCAGGCTCAAGCGATTCTCCACCTCAGCCATCCAAATAGCTGGGACCACAGGTGTGCACC
ACCACGCCCGGCTAATTTTTTGTATTTTGTCTAGATATAGGGGCTCTCTATGTTGCTCAGGGTGGTCTCGAATTC
CTGGACTCAAGCAGTCTGCCCACCTCAGACTCCCAAGCGGTGGAATTAGAGGCGTGAGCCCCATGCTTGGCCT
TACCTTTCTACTTTTATAATTCTGTATGTTATTATTTTATGAACATGAAGAACTTTAGTAAATGTACTTGTTTA
CATAGTTATGTGAATAGATTAGATAAACATAAAAGGAGGAGACATACAATGGGGGAAGAAGAAGTCCCCTGT
AAGATGTCACTGTCTGGGTTCCAGCCCTCCCTCAGATGTACTTTGGCTTCAATGATTGGCAACTTCTACAGGGC
CAGTCTTTTGAAGTGGACAACCTTACAAGTATATGAGTATTATTTATAGGTAGTTGTTTACATATGAGTCGGGAC
CAAAGAGAACTGGATCCACGTGAAGTCCTGTGTGTGGCTGGTCCCTACCTGGGCAGTCTCATTGACCCATAGC
CCCCATCTATGGACAGGCTGGGACAGAGGCAGATGGGTTAGATCACACATAACAATAGGGTCTATGTATATCCC
AAGTGAACCTTGAGCCCTGTTTGGGCTCAGGAGATAGAAGACAAAATCTGTCTCCACGCTGCGCATGGCATCAAG
GGGGAAGAGTAGATGGTGTCTGAGAATGGTGTGAAATGGTTGCCATCTCAGGAGTAGATGGCCCGGCTCACTTCT
GGTTATCTGTCAACCTGAGCCCATGAGCTGCCCTTTAGGGTACAGATTGCCTACTTGAGGACCTTGCCCGCTCTG
TAAGCATCTGACTCATCTCAGAAATGTCAATTCTTAAACACTGTGGCAACAGGACCTAGAATGGCTGACGCATTA
AGGTTTTCTTCTTGTGTCTGTTCTATTATTGTTTTAAGACCTCAGTAACCATTTCAGCCTCTTTCCAGCAAACC
CTTCTCCATAGTATTTTCAGTCATGGAAGGATCATTATGCAGGTAGTCATTCCAGGAGTTTTTGGTCTTTCTGT
CTCAAGGCATTGTGTGTTTTGTTCCGGGACTGGTTTGGGTGGGACAAAGTTAGAATTGCCTGAAGATCACACATT
CAGACTGTTGTGTCTGTGGAGTTTtaggagTGGGGGTGACCTTTCTGGTCTTTGCACTTCCATCCTCTCCCACT
TCCATCTGGCATCCACGCGTTGTCCCCTGCACTTCTGGAAGGCACAGGGTGTCTGTGCTCCTGCTGCTTGTGCT
TTGCTGGGCTTCTGTGCAGGACGCTCAGCCTCAGGGCTCAGAAGGTGCCAGTCCGGTCCCAGGTCCCTTGTGCC
TTCCACAGAGGCCTTCTAGAAATGCATCTAGAGTGTGAGCCTTATCAGTGTTTAAGATTTTTCTTTTATTTT
AATTTTTTTGAGACAGAATCTCACTCTCTCGCCAGGCTGGAGTGCAACGGTACGATCTTGGCTCAGTGCAACCT
CCGCTCCTGGGTTCAAGCGATTCTCGTGCTCAGCCTCCGGAGTAGCTGGGATTGCAGGCACCCGCCACACGC
CTGGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTACCATGTTGGTCAGGCTGGTCTCGAATCCTGACCTC
AGGTGATCCACCTTGGCCTCCGAAAGTGTGGGATTACAGGCGTGAGCCACCAGCCAGGCCAAGCTATCTTTTA
AAGTAAGCTTCTTGACGACATGAAATAATTGGGGGTTTTGTTGTTTAGTTACATTAGGCTTTGCTATATCCCCAG
GCCAAATAGCATGTGACACAGGACAGCCATAGTATAGTGTCTACTCGTGGTGGTGTCTTTTATGCTTCTGCT

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FIGURE 2490B

CIGTCAAAGGTCCCTATTTGAAATGTGTTATAATACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATT
TATGAATCCATGACCAAATTAAATATGAAACCTTATAT

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FIGURE 2491

CGGACGCGTGGGCAGGCAGCAGCCGGGCAGGGATGCTCCTGCGCTCCCGGGCGGCCTCGGGCCCAGCCACCTGCT
CGCCGGGGAAGAGGACACGCAGAGGAGCAGCTGGCTTGCCCGGAGTCTCCACCTTGACCCAAGCATGACAGGGC
CCACCCCGCAGCCTCCGCGCTGGGCTCAGCCTGGACGACTTCATCCCTGGCCACCTCCAGTCCCACATAGGGTCT
TCCTCCCGGGGGACACGGGTGCCGTGATCCGGAATGGTGGCTCCAACACCCTTAATTCCAGTTCCACGACCCC
GCGCCCAGGACTGTGTGCAATGGGGGCTACACACCAAGACGAGATGCTTCCAGCACCCGGACCCTGCGTGGTAT
CAGACCTGGCCAGGCCCTGGGAGCAAGCCCTCTGCAAGCACAAAGATCCCTGCCTCCAGCACACCCAGAAGTGG
TCAGCCACGTGGACCAAGGACAGCAAGCGTCGGGACAAGCGCTGGGTCAAGTACGAGGGAATCGGGCCCGTGGAC
GAGAGCGGCATGCCATTGCCCCCGATCCAGCGTTGACAGACCCAGAGACTGGTACCGGAGAATGTTCCAGCAG
ATTCACCGGAAAATGCCAGACTTGACAGCTGGACTGGACCTTCGAGGAGCCACCCAGAGACCCAGGCATCTAGGA
GCCCAGCAAAGACCTGCCCACAGGCCCGGGCCCGGAACATCTTCCAGTGGAAGAAGCTGGGACCACTCTGAAGAG
TTACCTAGAAGCACCTTCAACTACAGACCTGGAGCATTCTCCACTGTGCTGCAGCCCTCAAAATCAGGTGCTCAGA
CGCCGGGAAAAAGTAGACAATGTCTGGACGGAAGAGTCTTGAACCAGTTTCTGCAGGAACTAGAGACTGGGCAG
AGGCCCAAGAAACCGCTGGTGGACGACCCTGGTGAGAAGCCCTCCAGCCCATTTAGAGTGCTGCTGGAGAGAGAG
CTGGCCGAGCTGAGCGCCGAGCTGGACAAGGACCTGCGGGCAATTGAGACCCGACTGCCGTCCCCAAGAGCTCG
CCGGCGCCCCGACGGGCCCCGGAGCAGCGGCCCGGGCCGGCCCTCAGCCTGGAGCTCCAGCTACCCACAT
GCACCTTACCTGGGTTCGCCCCGTCCCTGAGTCCCCACAAAATGGCTGATGGAGGAAGCCCTTCCTAGGTGCG
AGGGACTTTGTCTACCCCTTCCTCAACCCGAGACCCTAGTGCTCTAACGGAGGGGGCAGCCAGCCAGGAGGGAA
GAGAAGAAGAGAAAGGCCGCCAGGCTCAAGTTTGACTTCCAGGCGCAGTCCCCAAGGAGCTGACTCTGCAGAAG
GGTGACATTGTCTACATCCACAAGGAGGTGGACAAGAACTGGCTGGAGGGAGAGCACCACGGCCGCTGGGCATC
TTCCCTGCTAATTATGTGGAGGTGCTGCCCCGAGATGAGATCCCTAAGCCCATCAAGCCCCGACCTACCAGGTG
CTGGAGTATGGAGAGGCTGTGGCCAGTACACCTCAAGGGGGACCTGGAGGTGGAGCTGTCTTCCGCAAGGGA
GAGCACATCTGCCTGATCCGCAAGGTGAACGAGAAGTGGTACGAGGGACGCATCACGGGCACGGGGCGCCAAGGC
ATATTCCCTGCCAGCTACGTGCAGGTGTCTCGTGAACCCCGGCTCCGGCTCTGTGACGACGGCCCCAGCTCCCC
ACGTCTCCCCGCTGACCGCTGCCGCCCGCTCAGCCCGTACCCAGCTCCCCCTCAGCCCTGCGCAGCCAGCT
GACCCACCGACTTGGGGGGACAGACCTCCCCCGTGCCTGGCTTCTCCTTCCCCACCCAGGAGCCTAGACCC
CAGACCCAGAATCTTGGCACCCCTGGTCCAGCTCTGTCCACTCTCGAGGTCCAGCCATCCCCTGACCTGGGG
ACCTCCTCTCCTAACACCTCTCAGATACACTGGACCCCGTACCGGGCGATGTACCAGTACAGGCCCCAGAACGAA
GACGAGCTGGAGCTGCGCGAGGGGGACAGGTGGATGTATGCAGCAGTGTGACGATGGCTGGTTTGTGGGTGTC
TCCCGGAGGACCCAGAAATTCGGAACGTTCCCTGGAAATTACGTTGCCCCGGTGTGAGTGGTCTCCATGGCAACT
TGGAGCCAGCCAGGATGGGTGGGGAGCGGTGGCACTCGTGGGAGGGAGAGGACCCCGCCACATCCTCCTTCC
CCAGGACCTGAGCTCCAGCATCTGCAGACGACCCCGCAGCATTTCCTCGGACCCCTCGAAGCCCCCTGGA
CTGATTCCCACCCAGACTCACAGGCATTCTCCACAGCCCTTTCATTCTCCTCCCCACCCCACTCCCCAAATAC
AGAGGTCTGCTTTGAAGCGGAGACCATTTCCAGGCCTTATTGAGACCAGACCCCAAGTCCCCACCCCACTCCTG
CTCCAGCGTTTCTCTAACAGGGACAGCTCTCCGCTTTGCCCCACGGGGTTCCTCTAACCAGAACCAGCTTCC
TAGCCTCGTAGAGACCAAAGGCCGCCCGCTGCTGGGGTTCCTCCAGCACCCAGCTTGCTGGCTGCCCTCT
TTGCCTTCTGGCCTCCAGCTGGGTGTGGGGGGGCGAGCAAGGCGGGGACAGACGACGACCTTCTTAGCGATC
TAGGCCTGGCAAGAGCTCTGGCCCCAAGGCCTCTCTCCAGGGGCTGCCAAGTCTGGCCCTGGCCCTGGCAT
ATCACCCGCACTGTGGGGCCAGGCACCACTAGCCTGGCTCAAATATCCCCAGGGAGACTGCTGTGTGCTGCC
GCCTGCCTGTGGCTCTCCCCAGCCCCACATCCCTCTGGAAGAGAATGTAAAATAAACCTGGACACAAGGGCC
TTCGTGGCCTCGA

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FIGURE 2492

MQGPPRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGGYTPRRDASQHPDP
AWYQTWPGPGSKPSASTKIPASQHTQNWSATWTKDSKRRDKRWVKYEGIGPVDESGMPIAPRSSVDRPRDWYRRM
FQQIHRKMPDLQLDWTFEPPRPRLGAQQRPAHRPGPATSSSGRSWDHSEELPRSTFNYPGAFSTVLQPSNQ
VLRREKVDNVWTEESWNQFLQLELTGQRPKKPLVDDPGKPSQPIEVLLERELAELSAELDKDIRAIETRLPSP
KSSPAPRRAPQRPAPGASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPSSTRDPSASNGGGSPA
RREEKKRKAARLKFDFAQSPKELTLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPAD EIPKPIKPPT
YQVLEYGEAVAQYTFKGDLEVELSFRKGEHICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPLRLCDDGP
QLPTSPRLTAAARSARHPSSPSALRSPADPTDLGGQTSRRTGFSFPTQEPRPQTQNLGTPGPALSHSRGSPHPL
DLGTSSPNTSQIHWTPIRAMYQYRPQNEDELELREGDRVDVMQCDDGWFGVSRRTQKFGTFPGNYVAPV

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FIGURE 2493

ACTTCCGCCCGGCGCGGAGACCGAAGGCTGGCGGCTGGTCGCGTTGCAGGCAACATGTCGGAAGGAAACGCCGCC
GGCGAGCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCCGGGGGCTCATCGGGCGGCGGCCGGCG
CCTCCCCCTACCCCCGGCGCCTTCCCTCCATCCGTTCCAGGGACCTCACCTCGGGGGAGTCAAGAAGAAAAC
TTCACCCCAAATATCATCAGTCGGAAGATCAAGGAAGAGCCCAAGGAAGAAGTAACTGTCAAGAAGGAGAAGCGT
GAAAGGGACAGAGACCGACAACGAGAGGGGCATGGACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCC
ATCTTTGAGCAGGGCCAGCTGAAATGATGAAGAAAAAAGGGAAGTGGGATAAGACAGTGGATGTGTCTAGACATG
GGACCTTCTCATATCATCAACATCAAAAAAGAGAAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATG
CTGGAGAAGGACGATTTCTCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTG
GCTCACTCAGGATGGCTTTTAAAGGAAGAAAATGACGAACCAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAA
GAGGACATGGAGGTGGACATACCTGCTGTGAAAGTGAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATG
AAGGCTCCTCCCAAAGCAGCCAGGAAGACTCCAGGCCTCCCGAAGGATGTATCTGTGGCAGAGCTGCTGAGGGAG
CTGAGCCTCACCAAGGAAGAGGAAGTGTGTTCTGACGCTGCCAGACACCTCCCTGGCCAGCCACCCACCCAG
GACATCAAGCCTATCAAGACAGAGGTGCAGGGCGAGGACGGACAGGTGGTGTCTCATCAAGCAGGAGAAAGACCGA
GAAGCCAAATTGGCAGAGAATGCTTGTACCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGC
AAGTCTGGAAGGGTGCAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAAGTGCCTGCTCCTTCTG
CAGGAGCTGGTGTCCGTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCTGGGACACGTGAAGCACAAA
CTTGTAATGTTCCCTGATTTTGAATCCCTCTTGGATCACAACACCCGGTAAATGAGCAGGTGGAGGAGGACGGC
GCCTGTGCCCACGGCTGCTGCCTGCTCCAGACATTTTGTCTTGAATCTGTGAGACCCAGAAGGGGGCCCACTGAG
CCCACTCACTCCAGCCTTTGGCAACCATTGTTCCAGGTCCCCAGGGCTTCTCCACAGCAGCTGTGAATGGCA
CAGTGACCTTCTGTCAGCGTGGAGATGGCACATCCTTGCTGCTGGGGACTTGGCCCTGCTATTTATTTTGTATT
TATGTCTTAATCTCTTCCACTGATGCATCCTCCAAGGGTAGATGGGGAGGGTCTGTGTGAAGGGGCCGGCTTCTC
TTGGTGCCTGCTGGGTTGACAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTGGTGTCTCCCCCGTCTCCTGG
AGGCAGTATAGGAGAGAGAGCAAGGATTGAGTCTGAGACTTAAGCACTCGGTCCCAGCTTGCCAGTTCTCTGGTTC
TGTGTCCTTGGACAACTACCTAACCTTTCTGAGCCTCCTATACCTCATCCGACACAAATGGGGATGATACCTAC
CTCCAGGGTTGGCGTGAGGATTCATGGGCTATTATAGATGAAAAGTGCACAAGGCCAGAACAGCAGGCACTCAA
TAAACGTTTCATGTCCTTTTCTCT

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FIGURE 2494

MSEGNAAGEPSTPGGPRPLLTGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKTFTPNIISRKIKEEPKEEV
TVKKEKRERDRDRQREGHGRGRGRPEVIQSHSIFEQGP AEMMKKGNWDKTVDVSDMGPSHIINIKKEKRETDEE
TKQILRMLEKDDFLDDPGLRNDTRNMPVQLPLAHSGWLFKEENDEPDVKPWLAGEPKEEDMEVDIPAVKVKEEPRD
EEEEAKMKAPPKAARKTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPPTQDIKPIKTEVQGEDGQVVL
IKQEKDREAKLAENACTLADLTEGQVGKLLIRKSGRVQLLLGKVTLDTMTGTACSFLOELVSVGLGDSRTGEMTV
LGHVKHKLVCSPDFESLLDHKHR

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FIGURE 2495

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGGCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCCGGCCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTTGTTCATTGGGG
GAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTG
GCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCACGTGCTCGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCCCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG
AGGTGAACGGGGTGAACTCTCCATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCCGCAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCTGCAAGACAGCACAGGCAACTTCTCTCCCTGAATACCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGT
CCCTGGACCTGTACCGCAGCCGCCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCPCCGAGGCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCCTCTGGGTTGAAT
TCCGCAGCAGCAGCAATTGGGTTGAAAGGGCTTCTTTGAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCACGTCCAGCCGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGCACTGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCCGAGGTATCACCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACCCG
TGTCAAAAAGGGCTTCAAGGCCCCTTCTCTCAGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCC
ACCAGCTCAAATTCCGAGTGCAAAAAGAAACCGGACCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGT
TACTCAGGAACCTCACCTTGGACGGAATGGGATGGGGGCTTCGGTGCCACCAACCCCCACCTCCACTCTGCCA
TTCCGGCCCCACCTCCCTCTGGCCGGACAGAAGTGGTGCTCTCTCTCCCCACTGTGCCCCGTCCGCGGACCGGGGA
CCCTTCCCCGTGCCCTACCCCTCCCATTTGATGGTGTCTGTGACATTTCTGTGTGAAGTAAAAGAGGGACC
CCTGCGTCTTGC

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FIGURE 2496

MPGVARLPLLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNETGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMCVWRISVTPGEKII LNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTD SRLWVEFRSSSNWVGKGFFAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKSCDPGYELAPDKRRCEAACGGFLTKLNG
SITSPGWPKYPPNKNCIWQLVAPTQYRISLQDF FETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVIT
SQYNNMRVEFKSDNTVSKKGFKAHFFSEKRPALQPPRGRPHQLKFRVQKRNRTPQ

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FIGURE 2497

GCCGCTTCCCTCGCCGCCGCCGCCGCCAGCATGCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCGCCGCCGCTGGACTTGCCGCACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCCGATGGGGTCATCCCTTTGTCAATTGGGG
GAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTG
GCCGCGGCGGGGGCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCACGTGCTCGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTTGCCCCAAGTATG
AGGTGAACGGGGTGAACCTCCCATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCCGAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCTGCAAGACAGCACAGGCAACTTCTCTCCCTGAATACCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGT
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCTCCGAGGCCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAAT
TCCGCAGCAGCAGCAATTGGGTGGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCACTACCCAGACGATTACCGGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCAGTGGGCCTCACATTCCAGTCCCTTGAGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCAGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGCAGCTGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGAATCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCGAGGTATCACCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG
TGTCAAAAAGGGCTTCAAGGCCCACTTCTTCTCAGTCTTGAGGGGGCAGGGGACCGACACTCACATCTATCAG
GCCTGGAGTTACTGCTCTGCCCCATGCCCTGGTGCACACTGTGCCCCGCCACCCCTCAGCCCTGCACGGAGACA
CACACGCCCACACGCACACATGTGCACACATTGCCCATCGCACAAGAACTGCAGAGGACCCCCACTGG
GGGCATCGAGGCTCAGCCCTCAGGGCCCGGGGCATCTGACTCTGGCCCCCAGGAGGGGAGCTATTTGGACTTTT
GGGACACCCACCGAGGAGACCCTAAGCCAAGAAGGAGAAGAAAGAGCCTGAAGACCTTCAGTCTGACCCCTGCCA
CCTTCCGGGGCAATTTGGGCACGTGAGAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCA
AATCCGAGTGCAGAAAAGAAACCGGACCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGTACTCAGGA
ACCTCACCTTGGACGGAATGGGATGGGGGCTTCGGTGCCACCAACCCCCACCTCCACTCTGCCATTCCGGCCCC
ACCTCCCTCTGGCCGGACAGAACTGGTGCTCTCTTCTCCCCACTGTGCCCGTCCGCGGACCGGGACCCCTTCCCC
GTGCCCTACCCCTCCCATTTTGATGGTGTCTGTGACATTTCTGTTGTGAAGTAAAAGAGGGACCCCTGCGTCC
TGC

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FIGURE 2498

MPGVARLP LLLGL LLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAFLGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRRAATSRPERVWPDGVIPFVIGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRRGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMCVWRISVTPGEKIIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGFFAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDSACAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCSCDPGYELAPDKRRCEAACGGFLTKLNG
SITSPGWPKEYPPNKNCIWQLVAPTQYRISLQFDFEETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVIT
SQYNNMRVEFKSDNTVSKKGFKAHFFSVLEGAGDRHSHLSGLELLLCPHALVDTVPAPPSALHGDTAHHTHVVH
THCPIAQETCRGPPLGASRLSPQGPGLTLAPQEGSYLDFWDTHRGDPKPRRRRKSILKTFSLTPATFRGIWAL

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FIGURE 2499

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCTCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCACTACAAAGACCCCTGCAAG
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTGTTCATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCCCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTCACCTATCGACCTTGGCGGTGCTGCTCCTACGTGGGTGCGCGCGGGGGGGCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAATCCAGCCAGGGCAGGAGTATAAC
TTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCT
CGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAACGGGGTGAAACCTCCC
ATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAAGTGCCAGCCTGTGGA
GAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCGTAATACCCCAATGGCTACTCTGCTCATATGCACTGC
GTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGTCCCTGGACCTGTACCGCAGCCGC
CTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCTCCGAGGCCGCTTCTGCGGG
TCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTTGAATTCCGACAGCAGCAATTGGGTT
GGAAAGGGCTTCTTTGAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCG
CCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTG
GGCCTCACATTCCAGTCCCTTGTAGATTGAGCGCCACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGG
CACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGC
CGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAAACAAAGCGGGCTTTGCCGTCAACTTTTCAAAGAGGTG
GACGAGTGCTCTCGGCCCAACCGCGGGGCTGTGAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGCAGC
TGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGGGTGTTATGATCTACAGGTGGGAAACCC
CTGTTGTGGGACAGACACTGTTTCCGCCCTCTCCACGCATGGTCCCGAGATGCTGGGGACAGCACTCCGAGGCTAA

TGGCTCCAGCTCACTAGGCCGATCCTGCTGTGCCCCGAGCTGCTCCCTTTCCTGCACCTCCAGGACCGCCCCCT
CCCTGAAGTGTCTTCCCTGAGTCCCTTATCCCGCTCACTCCCTCTTGAGGACCTTGGCCTGTTCAATTGCAGA
GAAGATAGAAATGGCCACACTTATGACCCCTTAGCTCCCCCACTCCTCCCTACAGGCCACCCCTGAGGACACCC
AGGCCACCCCTGCCTCCTCCCGTCCGCCCCAGAGGGACACAGGTCCCTGAGCCTTGGGGAGTCCACAGGCT
CCCCATCTTCTCCTTACTGCATCTCAGCCACATCTCAGCCCTTCCCCATGGCAGGGGCTCCCCGCAGACGATGC
CACCTTCCTTGTCCCCGAGCTGCTTGTGGCGGATTCTCACCAAGCTCAACGGCTCCATACCAGCCCCGGGCTG
GCCAAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCA
GTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGC
TGACTCCAAGCTGCATGGCAAGTTCTGTGTTCTGAGAAGCCCGAGGTTCATACCTCCAGTACAACAACATGCG
CGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGC
TCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCAAATTCGAGTGCAGAAAAGAAACCGGACCCCCAG

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FIGURE 2500

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFVQQQAVDLR
RHTARKSSIKA AVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTF LERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIIVVHELGHVVGFWHEH
TRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGGFAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDSACDYDLEVRDGHSESSLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCSDDPGYELAPDKRRCEGCYDLQVGKPLL
WDRHCFRLSTHGPEMLGTALRG

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FIGURE 2501

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCCGCTCCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCTCAACTACAAAGACCCCTGCAAG
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCAATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCCCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGTGCTCCTACGTGGGTGCGCGCGGGCGGGGCCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTCGTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACATCCAGCCAGGCGTTCTCCACTCT
TCACTGCTCCTTCTCAGCTGTGGCTCTAGAAATGGTGTCTCCTTCCCATGTTCCCTTGAGTCTCCACTCACCAG
GCCCCGTGCTGGACAGGACTCTTCTCAGACCCCTCCCCATTCCCCAGGCTCCCCCTTGGCTGTCCCCGGACCCCTC
AGGGCAGGAGTATATACTTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAG
CATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAA
CGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAA
GTGCCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATGGCTACTC
TGCTACATGCATGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACCTTACGTCCCTGGA
CCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCCCTCCG
AGGGCCCAACACTGGCCAGGGATGACAACCTGGTATGGGAGCCAGGAGTCCCTGGCATCATTAGTCCCAGATAGCT
GCATTACTCACTTGTGCGGAGACTTCAGGCCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGAC
AGCCGCCTCTGGGTTGAATTCCGCAGCAGCAATTGGGTTGGAAAGGGCTTCTTTGAGTCTACGAAGCCATC
TGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAA
GTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCTTTGAGATTGAGCGC
CACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTAC
TGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGCCGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCC
ATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAGGTGGACGAGTGTCTCGGCCCAACCGCGGGGGCTGT
GAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGAGCTGTGACCCCGGTACGAGCTGGCCCCAGACAAG
CGCCGCTGTGAGGCTGCTTGTGGCGGATTCTCACCAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAG
GAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCTGCAGTTTGAC
TTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCC
AAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCCGAGGTATCACCTCCCAGTACAACAACATGCGCGTGGAG
TTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAG
CCCCCTCGGGGACGCCCCACCAGCTCAAATTCGAGTGCAGAAAAGAAACCGGACCCCCAG

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FIGURE 2502

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPD RDRHVSIVRENIQPGVLHSSLLLLSCGSRNGASFPCSLESSTHQALCWTGLFLRPSFPRLPLAAPRTLRA
GV

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FIGURE 2503

GCAAGCCGGAGCCCTGGGGTTGGGCAGCACTCGGTTCCGTGCAACTTTCAAGTGAGTTGCGAACTCCGCCCTGTA
GGCCGGTGCTGGTGGCCCCGGCGCGCTGGAACCGCGGCGACCCGCTCCAGCGCGGGACCAGCAGCAAGGGCCGAGC
GCCAGGTTCTCCGCGGCAGAAAGGGCGGGTGGGAGCTGTAAGTCCCCCGCCGCGGGGCGCGCCCGCTCCCAAGT
CGGCTTCCCTCCCGCCGGGGCGCTTTGCCTCGGGTCTCCCCATTCTCCAGGTCCCCTGAACTGCACAGTCGGAG
GCCGTGGGCGGCGGGCTCTGCCTCCGCCGAGGGACAGCCGGATCGCCCCCTCTGCTTCCCGCAACTGCCCTGATCA
CCCCCGTCCAGCCCTTGAGTGAACGTCCTTCTGAGCGGCTTCCCTGGGGTCCCTCCCACGTCCCAAAGGCCGGC
AAGATGGTGTCTTGGATGATCTGTCGCCTGGTGGTGTGGTGTGGGATGCTGTGTCCAGCTTATGCTTCCTAT
AAGGCTGTGAAGACCAAGAACATTTCGTGAATATGTGCGGTGGATGATGTACTGGATTGTTTTTGCACTTTCATG
GCAGCAGAGATCGTTACAGACATTTTATCTCCTGGTTCCCTTTCTACTATGAGATCAAGATGGCCTTCGTGCTG
TGGCTGCTCTCACCCCTACACCAAGGGCGCCAGCCTGCTTTACCGCAAGTTTGTCCACCCGTCCCTGTCCCGCCAT
GAGAAGGAGATCGACGCGTACATCGTGCAGGCCAAGGAGCGCAGCTACGAGACCGTGCTCAGCTTCGGGAAGCGG
GGCCTCAACATTGCCGCTCCGCTGCTGTGCAGGCTGCCACCAAGAGTCAGGGGGCGCTGGCCGGCAGGCTGCGG
AGCTTCTCCATGCAGGACCTGCGCTCCATCTCTGACGCACCTGCCCTGCCTACCATGACCCCTCTACCTGGAG
GACCAGGTGTCCACCGGAGGCCACCCATTGGGTACCGGGCGGGGGCTGCAGGACAGCGACACCGAGGATGAG
TGTTGGTCAGATACTGAGGCAGTCCCCCGGGCGCCAGCCCGGCCCGAGAGAAGCCCTAATCCGCAGCCAGAGC
CTGCGTGTGGTCAAGAGGAAGCCACCGGTGCGGGAGGGCACCTCGCGCTCCCTGAAGGTTCCGACGAGGAAAAAG
ACTGTGCCCTCAGACGTGGACAGCTAGGGTCTGCTGCATCTGCCCCCTTCTTACCTCGTGCCCTGCAGGGCTCCA
GGGCTATTTGGAGGGACCTTGGGCTGCACATCTGGCCTGCCTGCACCAGCTGCCTGGGCCCCACCCTCCTGACTC
CTGCTGATGGTTAAGGGCCGGGAGCAGATGCTGCCAAGGCCACATGCAGGGATGCACCCACAATGTACCAAAGCA
GGCTGGGCCCAGGGTTCTATTTATTGCCTTGCTCTGCCCTCTCCCTTCCCCGGTTGTGGGACAAGAGCCCTCCCT
GAACCCCTGCAACCCTCCCTGAACCCCTGCAATGAAACCAACGTCCACCTGGGTGTGTTTCATTCTTCTGTG
CTTCAAAGTACTTGATAGCCTTTCATAAGGCCTGGCACATGTGTCTGGTTGTGTGTGTGTGTGTGTGTGTGTGTG
GGTCAGGTTTGGCAGTGTTTTGATAAATAAATACATAAAGGGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2504

MVSWMICRLVVLVFGMLCPAYASYKAVKTKNIREYVRWMMYWIWVFALFMAAEIVTDIFISWFFPYEIKMAFVLW
LLSPYTKGASLLYRK FVHPSLSRHEKEIDAYIVQAKERSYETVLSFGKRGLNIAASA AVQAATKSQ GALAGRLRS
FSMQDLRSISDAPAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEAVPRAPARPREKPLIRSQSL
RVVKKRPPVREGTSRSLKVRTRKKTVP SDVDS

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FIGURE 2505

GA CTGCAATGTGCCGATCTTAGCTGCTGCCTGAGAGGATGTCTGGGGTGTCCGAGCCCCTGAGTCGAGTAAAGTT
GGGCACGTTACGCCGGCCTGAAGGCCCTGCAGAGCCCATGGTGGTGGTACCAGTAGATGTGGAAAAGGAGGACGT
GCGTATCCTCAAGGTCTGCTTCTATAGCAACAGCTTCAATCCTGGGAAAACTTCAAACCTGGTCAAATGCACTGT
CCAGACGGAGATCCGGGAGATCATCACCTCCATCTGCTGAGCGGGCGGATCGGGCCCAACATCCGGTTGGCTGA
GTGCTATGGGCTGAGGCTGAAGCACATGAAGTCCGATGAGATCCACTGGCTGCACCCACAGATGACGGTGGGTGA
GGTGACAGACAAGTATGAGTGTCTGCACGTGGAAGCCGAGTGGAGGTATGACCTTCAAATCCGCTACTTGCCAGA
AGACTTCATGGAGAGCCTGAAGGAGGACAGGACCAGCTGCTCTATTTTACCAACAGCTCCGGAACGACTACAT
GCAGCGCTACGCCAGCAAGGTGAGCGAGGGCATGGCCCTGCAGCTGGGCTGCCTGGAGCTCAGGCGGTTCTTCAA
GGATATGCCCCACAATGCACCTTGACAAGAAGTCCAACCTCGAGCTCCTAGAAAAGGAAGTGGGGCTGGACTTGTT
TTTCCCAAAGCAGATGCAGGAGAAGTTAAAGCCCCAACAGTTCCGGAAGATGATCCAGCAGACCTTCCAGCAGTA
CGCCTCGCTCAGGGAGGAGGAGTGCCTCATGAAGTTCTTCAACACTCTCGCCGGCTTCGCCAACATCGACCAGGA
GACCTACCGCTGTGAAGTCAATCAAGGATGGAACATTACTGTGGACCTGGTCATTGGCCCTAAAGGGATCCGCCA
GCTGACTAGTCAGGACGCAAGGCCACCTGCCTGGCCGAGTTCAAGCAGATCAGGTCCATCAGGTGCCTCCCGCT
GGAGGAGGGCCAGGCAGTACTTCACTGGGCATTGAAGGTGCCCCCAGGCCTTGTCCATCAAAACCTCATCCCT
AGCAGAGGCTGAGAACATGGCTGACCTCATAGACGGCTACTGCCGGCTGCAGGGTGAGCACCAAGGCTCTCTCAT
CATCCATCCTAGGAAAGATGGTGAGAAGCGGAACAGCCTGCCCCAGATCCCCATGCTAAACCTGGAGGCCGGCG
GTCCACCTCTCAGAGAGCTGCAGCATAGAGTCAGACATCTACGCAGAGATTCCCGACGAAACCTGCGAAGGCC
CGGAGGTCCACAGTATGGCATTGCCCCGTGAAGATGTGGTCTGAATCGTATTCTTGGGGAAGGCTTTTTTGGGGA
GGTCTATGAAGGTGTCTACACAAATCACAAAGGGGAGAAAATCAATGTAGCTGTCAAGACCTGCAAGAAAGACTG
CACTCTGGACAACAAGGAGAAGTTTATGAGCGAGGCAGTGATCATGAAGAACCTCGACCACCCGCACATCGTGAA
GCTGATCGGCATCATTGAAGAGGAGCCACCTGGATCATCATGGAATTGTATCCCTATGGGGAGCTGGGCCACTA
CCTGGAGCGGAACAAGAACTCCCTGAAGGTGCTACCCCTCGTGTCTGACTCACTGCAGATATGCAAAGCCATGGC
CTACCTGGAGAGCATCAACTGCGTGACAGGGACATTGTGTCCGGAACATCCTGGTGGCTCCCTGAGTGTGT
GAAGCTGGGGGACTTTGGTCTTTCCCGGTACATTGAGGACGAGGACTATTACAAAGCCTCTGTGACTCGTCTCCC
CATCAAATGGATGTCCCCAGAGTCCATTAACTTCCGACGCTTACGACAGCCAGTGACGTCTGGATGTTCCGCCGT
GTGCATGTGGGAGATCCTGAGCTTTGGGAAGCAGCCCTTCTTCTGGCTGGAGAACAAGGATGTCATCGGGGTGCT
GGAGAAAGGAGACCGGCTGCCAAGCCTGATCTCTGTCCACCGGTCTTTATACCTCATGACCCGCTGCTGGGA
CTACGACCCCAAGTGACCGGCCCCGCTTACCGAGCTGGTGTGCAGCCTCAGTGACGTTTATCAGATGGAGAAGGA
CATTGCCATGGAGCAAGAGAGGAATGCTCGCTACCGAACCCCCAAAATCTGGAGCCCACAGCCTTCCAGGAACC
CCCACCCAAAGCCAGCCGACCTAAGTACAGACCCCTCCGCAAAACCAACCTCCTGGCTCCAAAGCTGCAGTTCCA
GGTTCCTGAGGCTCTGTGTGCCAGCTCTCTACGCTCACCAGCCCTATGGAGTATCCATCTCCCGTTAACTCACT
GCACACCCACCTCTCCACCGGCACAATGTCTTCAAACGCCACAGCATGCGGGAGGAGGACTTCATCCAACCCAG
CAGCCGAGAAGAGGCCCAGCAGCTGTGGGAGGCTGAAAAGGTCAAATGCGGCAAAATCCTGGACAAACAGCAGAA
GCAGATGGTGGAGGACTACCAAGTGGCTCAGGCAGGAGGAGAAGTCCCTGGACCCCATGGTTTATATGAATGATAA
GTCCCCATTGACGCCAGAGAAGGAGGTGCGCTACCTGGAGTTACAGGGCCCCACAGAAGCCCCGAGGCTGGG
CGCACAGTCCATCCAGCCCACAGCTAACCTGGACCGGACTGATGACCTGGTGTACCTCAATGTATGGAGCTGGT
GCGGGCCGTGCTGGAGCTCAAGAATGAGCTCTGTGAGCTGCCCCCGAGGGCTACGTGGTGGTGGTGAAGAATGT
GGGGCTGACCCTGCGGAAGCTCATCGGGAGCGTGATGATCTCCTGCCTTCCCTGCGTCTCTTACGGACAGA
GATCGAGGGCACCCAGAACTGCTCAACAAAGACCTGGCAGAGCTCATCAACAAGATGCGGCTGGCACAGCAGAA
CGCCGTGACCTCCCTAAGTGAGGAGTGCAAGAGGCAGATGCTGACGGCTTACACACCCCTGGCTGTGGACGCCAA
GAACCTGCTCGACGCTGTGGACCAGGCCAAGGTTCTGGCCAATCTGGCCACCCACCTGCAGAGTGACGGAGGGT
GGGGGCCACCTGCCTGCGTCTTCCGCCCTGCCTGCCATGTACCTCCCTGCCTTGCTGTTGGTCATGTGGGTCT
TCCAGGGGGAAGGCCAAGGGGAGTACCTTCCCTTGCCACTTTGCACGACGCCCTTCCCCACCCCTACCCCTGG
CTGTACTGCTCAGGTGCAGCTGGACAGAGGGGACTCTGGGCTATGGACACAGGGTGACGGTGACAAAGATGGCT
CAGAGGGGGACTGCTGCTGCCTGGCCACTGCTCCCTAAGCCAGCCT

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FIGURE 2506

GAATTCCGCCGCTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATGATGAAGACTCTGCTGCTGTTTGTGG
GGCTGCTGCTGACCTGGGAGAGTGGGCAGGTCCTGGGGGACCAGACGGTCTCAGACAATGAGCTCCAGGAAATGT
CCAATCAGGGAAGTAAGTACGTCAATAAGGAAATTCAAATGCTGTCAACGGGGTGAAACAGATAAAGACTCTCA
TAGAAAAAACAAACGAAGAGCGCAAGACACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAAAGAGGATGCC
TAAATGAGACCAGGGAATCAGAGACAAAGCTGAAGGAGCTCCCAGGAGTGTGCAATGAGACCATGATGGCCCTCT
GGGAAGAGTGTAAGCCCTGCCTGAAACAGACCTGCATGAAGTTCTACGCACGCGTCTGCAGAAGTGGCTCAGGCC
TGGTTGGCCGCCAGCTTGAGGAGTTCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCG
ACTCCCTGCTGGAGAACGACCGGCAGCAGACGCACATGCTGGATGTGATGCAGGACCACTTCAGCCGCGCGTCCA
GCATCATAGACGAGCTCTTCCAGGACAGGTTCTTACCCGGGAGCCCCAGGATACCTACCACTACCTGCCCTTCA
GCCTGCCCCACCGGAGGCCCTCACTTCTTCTTCCCAAGTCCCGCATCGTCCGCAGCTTGATGCCCTTCTCTCCGT
ACGAGCCCCTGAACTTCCACGCCATGTTCCAGCCCTTCCTTGAGATGATACAGAGGCTCAGCAGGCCATGGACA
TCCACTTCCACAGCCCGGCCCTTCCAGCACC CGCCAACAGAATTCATACGAGAAGGCGACGATGACCGGACTGTGT
GCCGGGAGATCCGCCACAACCTCCACGGGCTGCCTGCGGATGAAGGACCAGTGTGACAAGTGCCGGGAGATCTTGT
CTGTGGACTGTTCCACCAACAACCCCTCCCAGGCTAAGCTGCGGCGGGAGCTCGACGAATCCCTCCAGGTGCTG
AGAGGTTGACCAGGAAATACAACGAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACCTCCTCCTTGCTGG
AGCAGCTGAACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAGTACTATCTGC
GGGTCACCACGGTGGCTTCCCACTTCTGACTCGGACGTTCTTCCGGTGTCACTGAGGTGGTCGTGAAGCTCT
TTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGAAGTCTCCAGGAAGAACCCTAAATTTATGGAGACCGTGG
CGGAGAAAGCGCTGCAGGAATACCGCAAAAAGCACCGGGAGGAGTGAGATGTGGATGTTGCTTTTGACCTTACG
GGGCGATCTTGAGTCCAGCTCCCCCAAGATGAGCTGCAGCCCCCAGAGAGAGCTCTGCACGTCACCAAGTAAC
CAGGCCCCAGCCTCCAGGCCCCAACTCCGCCCAGCCTCTCCCCGCTCTGGATCCTGCACTCTAACACTCGACTC
TGCTGCTCATGGGAAGAACAGAATTGCTCCTGCATGCAACTAATTCAATAAAACTGTCTTGTGAGCTGAAAAAA
AAAAAAAAAAAAAAAAAAGGAATTC

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FIGURE 2507

MMKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLIEKTNEERKTLLSNLE
EAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQTCMKFYARVCRSGSGLVGRQLEEFNLQSSPF
YFWMNGDRIDSLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRI
VRSIMPFSPIEPLNFHAMFQPFLEMIHEAQQAMDIFHSPAFQHPPTEFIREGDDRTVCREIRHNSTGCLRMKD
QCDKCREILSVDCSTNNPSQAKLRREIDESLQVAERLTRKYNELLKSYQWKMLNTSSLLEQLNEQFNWVSRLANL
TQGEDQYYLRVTTVASHTSDSDVPSGVTEVVVKLFSDPITVTVPEVSRKNPKFMETVAEKALQEYRKKHREE

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FIGURE 2508

ATAGTGACAAGTTTGGAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCAGCAT
CTTCCTCTACAGCTACAGCTTCCACACAGACGCAGCATTTCGGGAATGTCCTCCGTCACCTAGCAACAGTTATGACA
CTTCCCCACAGCCTTGCACTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACATCCAATGGAAAGA
TGTCACCAACTCGCTACCATGCAAACAGCATGGGTGAGAGGTCATACAGTTTTGAAGCCTCAGAAGAGGACCTAG
ATGTAGATGATAAAGTGGAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTG
CCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGT
TGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTTGAGAAGACAAACC
CTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACGCTCCCCCAG
TCTCTGCCACATCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTA
TGGAAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATTGCAAACGCTTGCAATGCAG
TTATACAGAAGCCAGGCAAAAAGCTGTGATCTGGAAAGAGTTACCTCCCTGAAAGTATATAATTGGTTTGCTA
ACAGAAGGAAGGAGATCAAGAGGAGAGCCAAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGA
GTCCAGGAGGCCACTCAAACAGTGATGATGTCGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATA
GTGACCACCAAGACCCCATCTCATTAGCTGTGAAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGAC
AAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTGATCAGGGAGGTTAAACATGACAAGTTAACTTA
GTTTAGACGTAGCACCTTAGCAGACTTTCCCTCGGTCCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTG
TATGTCAGGTAGCTGTTAGGGTCTTGTTCTGTGAAGATGGCATGGTGCCCTCAGCCTTTGCATATACTCTCTCAG
TATTAACCTCCAGTAAATAATAACCAACCAACCAACCAACCAACTTCCCTCTCCAGCCCCCGAGGCTAGAAAA
TCTTGCTGCTCCGCTCTTAGCATTCCAAGAGAGTGCTTCCAGGTATTTAGATAGCCCTCAGTTCTCAAATATTAGA
CTACGTGTAAAATCTTGGGTACCTTTAGATTCTTGTAACACTAGTCTGTACTCCCTTTTCCCTTCCCCAAGACTGA
TAGGATGCAAGCTGAGGTGCTGGCACAGGAATGACAGACACCAATTTGGGGAGTATCCACAGAGTCAAAGGAACAC
TAGAATCCCCACCTCAGCGTGAGGATAATTGATTTCCAGCTGCAATAAGCCGTGCCTCATTATAGCCCACTGTG
GCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAATGTCAATGGAAAAAGCCGATCTCAGATTTTGTGTTGAAGTT
AACATGCCTGACACAGACATCCTTTCTCTCACAAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTT
GGGACCATGATTAATAACAAAGACAAAAACCAAAAGTCATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 2509

MSPSPSNSYDTSPQPCTTNQNGRENNERLSTSNKGMSPTRYHANSMGQRSYSFEASEEDLDVDDKVEELMRRDSS
VIKEEIKAF LANRRISQAVVAQVTGISQSRISHWLLQQGSDLSEQKKRAFYRWYQLEKTNPGATLSMRPAPIPIE
DPEWRQTPPPVSATSGTFLRRGSRFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQKPGKKLSDLERV
TSLKVYNWFANRRKEIKRRANIEAAILESHGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMAA
VNHTILALARQGANEIKTEALDDD

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FIGURE 2510

AGGTGGCGGAGATTGCACCGGAAGACGCTTCCTGGGTTTGAGGAGTTCAGTGACTGCTATTGAACCACCAAAAGT
CCATTATGAAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAATGTGCTCAAATTCAAATCAACCACCA
TTATGTTGGACTGCGGACTGGACATGACTTCTACCCTCAATTCCTTCCTTTGCCACTTGTTCAAAGTCCCAGGC
TGTCCAATCTTCCTGGCTGGTCCCTGAAGGATGGAAATGCTTCTTGACAAAGGAGCTAAAGGAGTGCTCGGGTC
ATGTATTGTGGATTCTGTGCCGGAATTCTGTTTACCAGAGACGGAGCTAATAGATCTGTCTACAGTAGATGTGA
TTCTCATCTCTAACTATCACTGTATGATGGCGCTGCCATACATCACCGAGCACACCGGCTTCACAGGCACAGTGT
ATGCCACGGAACCCACCGTCCAGATCGGCAGGCTTCTCATGGGAAGAGCTGGTGAATTCATTGAAAGAGTGCCAA
AGGCTCAGTCTGCCTCCTTGTGGAAGAATAAGGACATTAGAGGCTGTTACCTTCTCCTCTCAAGGATGCAGTGG
AAGTCTCAACCTGGAGAAGATGCTATACAATGCAAGAGGTGAACTCTGCCCTTAGTAAAATCCAGCTGGTGGGAT
ATTCTCAGAAAATTGAGCTTTTTGGTGCGGTCCAGGTGACTCCTCTGAGCTCTGGCTATGCCCTTGGGAGCTCCA
ACTGGATCATCCAGTCTCATTACGAGAAAGTGCTTATGTCTCTGGATCCTCCTTGCTTACCACACACCCCCAGC
CCATGGACCAAGCTTCTCTCAAAAACAGCGATGTTCTTGTCTGACAGGGCTTACCCAGATCCCCACTGCAAACC
CAGATGGAATGGTGGGAGAGTTCTGCAGCAACCTAGCTCTGACAGTCCGGAATGGAGGAAACGTGTTGGTTCCCT
GCTACCCTTCTGGAGTGATCTATGACCTCCTGGAGTGCCTATATCAGTACATCGACTCAGCCGGGCTTTCACGCG
CCCCCTCTACTTCATCTCCCCTGTGGCCAAACAGTTCACCTGGAGTTTTCCAGATCTTTGCTGAGTGGCTTTGTC
ACAACAAACAGAGTAAGGTGTATCTTCCAGAACCACTTTTCTCATGCAGAGCTCATTAGACCAATAAGCTGA
AGCACTACCCAGCATCCACGGAGACTTCAGCAACGACTTTAGACAGCCCTGTGTGGTGTTCACCGGGCACCCCTT
CCCTCCGCTTCGGGGACGTGGTCCACTTCATGGAGCTCTGGGGAAAATCTAGTCTCAATACCGTCATATTACGG
AACCAGACTTCTCCTACCTGGAAGCCCTGGCTCCTTACCAGCCGCTGGCCATGAAATGCATCTACTGCCCATCG
ACACCCGGCTGAACCTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTGCAGCCCTGCACGTGGTGTGTCTCTGAGC
AGTACACTCAGCCGCCCCCAGCCAGTCCACAGGATGGACCTCATGATCGACTGCCAGCCCCCGCCATGTCTCT
ATCGGCGGGCTGAGGTTCTCGCCCTGCCCTTCAAACGTGGTACGAGAAGATCGAGATCATGCCAGAGCTCGCAG
ATTCAGTGGTGCCCATGGAGATCAAGCCTGGCATCTCCTTGGAACCTGTCTCGGCCGTGCTGCACACCAAAGATA
ACAAGCACTTGCTTCAGCCCCCTCCTCGGCCCCGCCCAGCCACGAGCGGGAAGAAGAGAAAGCGGGTGAGCGATG
ACGTACCAGACTGCAAAGTCTGAAGCCTTTGTTGAGCGGTTCCATCCCTGTGGAGCAGTTCGTGCAGACCCCTGG
AGAAGCATGGCTTCAGTGATATTAAGGTGGAGGACACAGCCAAGGGCCATATCGTCCTGCTCCAGGAGGCTGAGA
CGCTCATCCAGATTGAAGAAGACTCGACCCATATCATCTGCGACAATGACGAGATGCTCAGAGTGGGACTGCGGG
ACCTTGTCTCAAATTCTTACAGAAGTCTTGAGTGGGCCATCTGAGCTACTTCCCTGAAATCCTGCAGTCCCTCA
CTGGCTGCCCTCACAAGCCACCTGAGGAGTGGCATGAGAGGCCATTAAGTGTGTCTTTGTGGTGTCTCTGGCTT
AAGGAGTGAAGAGGTGGCTCTTGAGGGAATGGTCTGGACTTATCCCAGCACTGTTTCAGGCAAGAAGTTCCTT
TTCAACTTCAGGCTCATTTTCTTCTCAACTCTGGCTCTCTCAAGGAGCTGGAGGGTGACAGAAGTGGGACAGGA
GAAGTTTTCCAAGAGTTTATGGGAGGCGGAGGTGACTGGCTGGCTGTCTTGATCAGTCCAGGCTCGGCCAG
GGGAGCCAGCCTTTGGTTTCGTTTACTTGCCTACAGTGTGTACGCAATAAGATGATGATCCCAAAATATGGTAA
AGTGAACCCATCTGTCTGCATTTTCTACTCTGAGCCATTTGTTAATAAACACTTATTTTTATAT

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FIGURE 2511

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLEPLPLVQSPRLSNLPGWSLKDGNAFIDKELKECSGHV
FVDSVPEFCLPETELIDLSTVDVILISNYHCOMMALPYITEHTGFTGTVYATEPTVQIGRLLMEELVNFIERVPA
QSASLWKNKDIQRLLPSPKDAVEVSTWRRCYTMQEVNSALSQIQLVGYSQKIELFGAVQVTPLSGYALGSSNW
IIQSHYEKVSYSVGSSLLTTHPQPMQASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLPCY
PSGVIYDLLECLYQYIDSAGLSSAPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEPPFPFAELIQTNKLKH
YPSIHGDFSNDFRQPCVVFTGHPSLRFQDVVHFMELWGKSSLNTVIFTEPDFSYLEALAPYQPLAMKCIYCPIDT
RLNFIQVSKLLKEVQPLHVVCPEQYTQPPAQSHRMDLMIDCQPPAMSYRRAEVLALPFKRREYKIEIMPELADS
LVPMEIKPGISLATVSAVLHTKDNKHLQPPRPAQPTSGKKRKRVSDDVPDCKVLKPLLSGSIPVEQFVQTLEK
HGFS DIKVEDTAKGHIVLLQEAETLIQIEEDSTHIICDNDEMLRVRLRDLVLKFLQKF

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FIGURE 2512

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGCTCA
GCGCCTTCACTTTGGAACTGACTCAGAGACCTAAAGAAGCCACCTGGCCAGCGGAAGGGGGCCGCCGCCGCC
TCCCGGTTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCCCTGCAGGCCGGCGCTGCTTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTGCTTCAAAGAGAGGAGAGGCAGCAGCATGGCGAGTGTCTGTCCCGACGCTTGGAAAGCGGTCC
CTCCTGGGAGCCCGGTGTTGGGACCCAGTGCCTCGGAGGGGCCCTCGGCTGCCCCACCCTCGGAGCCACTGCTA
GAAGGGGCCGCTCCCCAGCCTTTACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG
GCTCCCAGCACCTCGGGCCCTTCAGCAGGTGGCCTTTTCAGCCTGGGCAGAAAGGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG
CAGGTCTGCTGCAGGTTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCCTGTCCCCAGGCACCAACCCCTGGAG
CCCGAGCCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGCTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCCTCCCGGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGGCCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCCCCACCCCAAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCCTGACCCCTTTCCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCCCTGTGGCCAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGCAGGCACCCAGTCCCTGGGACTCCACCTCCGAGCCAGCTCCCACCCCAAGCATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCCAGTCCCTCCGGCCCAGAACATCCTGGCCCCGAGTCCTCCCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTTCAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCAGTCTCACCACACATCTACACCAAGTGTGAGCTGGGCTGCTGCCCCCTCCGCCGCTGC
TCTCTCTCTCCGGTCCGGAGCCGGTCGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACAGTGGTGCACGGCGTGCCGGTGGAAGAAGGCCTGCCAGCGCTTTCTGGAC
TGAGCTGTGCTGCAGGTTCTACTCTGTTCTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTCACCAGC
CCTCAGCAGAAACCGAAAGAGAAAGAACGGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCATTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 2513

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEQPKEVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTWVWLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDAVEMDEMMAAMVLTSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHPQASPKYLGDAGSPQTDHGFETDPPFLLEDPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH
VKALHLGDTVDSQDFKREEDFYYTEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESLPSGALSXSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFLD

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FIGURE 2514A

ATGCTCCATGCTGCAAGCTGCAAGGAGAGCCCAGGAGGGGTGTCCTCCTGGTGGAAGTTGCGCTTGTTGAAGATG
ATTTATATAAAGAACGAACGAGAAAAAGAAGGAAATCAGATCGAGACCAGCGGTTCCGAGCATTTCCTCCATGG
AGCAGAGTGCTCTTAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAAAC
TTATTCAGTCTGTCTTCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCTTGA
TTGAAAAGCCGACAGTGGACCCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGATCA
ATGCCATCATCCAGCAAGCAATGTTTCTACCAAGTGTCTGGAGAAAGCATATGTACTTCCTGCATTGTACAAGTGA
GCTCTGGCTGCTGTGTGCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGGAGGAGCTGAAGA
ACCTGACCAAACTCCTGCATAGGACGGAGGAGCTGAGCAGAGAAGAGGCAGATGCGTGGAACAGGGATGAGGCAG
TGGAGGAAGCCACCTGGAAGCTACAAATGATTATGGAATGGGGCAGAGAGTAAGAACTATGAGGAGTTACTGA
GGGCGAAGCCCAAAAGGAAGATCCCCACCTCCAGAGTCATCACCTCAAGGCGGAAGAGGCAGAAGAGCTGTCCA
TCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGATGGAGAGGCCGCTGAGATGCGCATCTGGCCCT
TGATCAAAATGTGGAAGTGACACTTCCCAATCCGACCTGATCCCAAGAGGGGTCTGCTGGTGGACATCCAG
GCACAGGCGACTTCAACAGCAAGAGGGACGAGATGTGGAAGAAAGACCATTGACAAGTGCTCAGTGATCTGGGTGA
TCAGCGACATAGAGCGAGTTTCTGGGGGGCAAGCCCACGAAGACCTTCTGAATGAGAGCATCAAAGCCTGCCAGC
GGGGCTTCTGTAGGGACGTGGCCCTGGTGGTCACCAAGATGGACAACTCCACTTGCCAGAATACCTAAGGTCT
CAAAAGTTTGTAGAACTTCGGGAGAAGAGAAAACTGCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGT
ATACAGTCAGCGCCAGGAGTACTGGCAGCAGGCTCTCCTCACCGAGGAGGAACGGAAATCCCTAAGTTAAGAG
AATACATCAGGAAGAGCCTCTTGGAACAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGGCCTGT
TGCTCCTCACAGATAGTTTCAACTCCACGCAAAACCTGCCGAATGAACACTTGACATGAGTGTCTGCGGAGAT
TTGCGGAAGAGAAGGTTGAGCTGTGGAGAAGGCCATCGCACAGTGCTTCGCCTGCATGGAGCAGCCTCTGCAAG
AAGGGGTCAGGACCGCCAGGACTTCTTACCGCTGCATCCTCAGAGCATGCTTGGTGAGGAGTAAAGGAAACCAAG
GTTTTATCAGACCCCTGAAAGCTGTTTGCCGTGAAAAATGGCATCTATGCCTCCAGGACTCTGGCGAGAATTGATC
TAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCTGTTTTTGGAGCATTTTTAGGACGGGGAAGC
CCACTGGTTTCACTCTGATGCCTCACATAGATGCTTTTAAGCAGTCCCTGCAGGAGAAAATGACAGAAATTGGGA
TAAGAAGTGGCTGGAATATGATAGCTGCAAAAAAATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCC
TGGAGGACCACATCCTCAGAAGGAAGAGGAGGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGC
TCTGTTACGAAGAGGACAGCTCAGATCACGGGCAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAG
TGGACCGGCAGGTGGCTGAGGGCATGTTTGAAAGGGCCAGGAAAGGATGCAGCACCAGTTTACAGAGCTGAAGG
TACTCTATGCCACATCCTGGATCCTAGACCCCGAGAGGCTCCGGGGGAGGAGAGGAAGCGAGTGCAGAAGACTG
GAATCGTGGAGAAGGTGAAGGGCAGCATCACCCTATGCTGGCCCTTGTCTCGTCCAGGGGGATGGCCTCTACA
AGGAGCTTGCAGGGCTGAGCTGCAGGATGGGAGACAATGACAAATGGGACGTGGCCCTTCTCAGGAAGGGGAC
AGCTGTTGCAGGGTGTGATGGAGAACAAGCTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCT
GTGAGGATTCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTACAAACGGCGGG
CAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGCCCTGAAGCATGCTGTCTGGGGCTCTACCTGCTGGTCT
TCCTGATTCTTGTGGGCATCTTCACTTTAGCAGCCTGCTGCCACGCGTGCAGTTCCTGAGAGGACATGACCCAGG
GCTTGCCAGCCCGTGCACGCATTTACCCCTTGTATCTGGGAGGTCCCTGACAGCAGAGGTCCTGGTACCTGG
GAACAGCCAGGGACAGAAGCTGGGACCCAGGAGCTGTGCAGCAGGGGCTGAGTTGTCTGGGGAGAGCGCTTACC
TGCCCACTCCTGTCCCCGGGGATCGGGACTTCCAGAGGGTGAAGTGTCCAGGCCGCGCAGCTCCCTGACGACC
TGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGCTTCCGGGACTTGACAGCTGCGGCTGCTGAGGCTC
CGCTGCAAGCGGACCTGACGGAGCAGGTGTGAAGGTGCAGGACGCGCTGCAGAACAGTCAAGTCTGCTGCTGG
CGCTGGCGGGCGCAGTGCAGCGGCTGGAGGGCGCGCTGTGGGGCTGCAGGCGCAGGCGGTGCAGACCGAGCAGG
CGGTGGCCCTGCTGCGGGACCGCACGGGCCAGCAGAGCGACAGGCGCAGCTGGAGCTCTACCAGTGCAGGTGG
AGAGCAACAGTAGCCAGCTGCTGCTGAGGCGCCACGCGGGCTGCTGGACGGCTGGCGCGCAGGTTGGCATCC
TGGCGGAGGAGCTGGCCGACGTGGGCGGCTGCTGCGCGGCTCAACCACAGCCTGTCTACGAGCTGGCCCTCC
ACCGCACGCGGCTGCAGGACCTGCGGGTCTGGTGAGCAACGCCAGCGAGGACACGCGCCGCTGCGCCTGGCGC
ACGTAGGCATGGAGCTGCAGCTGAAGCAGGAGCTGGCCATGCTCAACGCGGTACCGAGGACCTGCGCCTCAAGG
ACTGGGAGCACTCCATCGCACTGCGGAACATCTCCCTCGCGAAAGGGCCACCGGGACCCAAAGGTGATCAGGGGG
ATGAAGGAAAGGAAGGCAGGCCTGGCATCCCTGGATTGCCTGGACTTCGAGGTCTGCCCGGGAGAGAGGTACCC

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FIGURE 2514B

CAGGATTGCCCCGGGCCCAAGGGCGATGATGGGAAGCTGGGGGCCACAGGACCAATGGGCATGCGTGGGTTCAAAG
GTGACCGAGGCCCAAAAGGAGAGAAAGGAGAGAAAGGAGACAGAGCTGGGGATGCCAGTAAGGACATTCTGCTGG
GGCCGTGGGATATGATCATTACGATTACTCTTGGCCATGCAGTACACATCAGACACTTCAACTGCCTTCTCTT
CAGTTGCTCATATCAGCTGA

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FIGURE 2515

CTTCCTGCCGCCGCGTTCCGACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCA
GAGAAAAAAAAAATTACTTATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAATTAAATTTTAACCATGA
GGGAAATCGTGCACATCCAGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATG
AACATGGCATCGACCCCACTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACA
GTGAAGCCACTGATGGCAAATATGTTCCCTCGTGCCATACTGGTGGATCTAGAACCCCTTCCCACGTCTCCATTTC
TTTATGCCTGGCTTTGCCCCCTCTCACCAGCCATGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACC
CAGCAGGTCTTCGATGCCAAGAGCATGATGGCTGCCTGTGACCCCCGCCACGGCCGATACCTCACCCTGGCTGCT
GACTTCCGTGGTCCGATGTCCATGAAGGAGGTGATGAGCAGATGTTTAACGTGCAGAACAGAACAGCAGCTAC
TTTGTGGAATGGATCCCCAACATATCAAGACAGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTC
ACCTTCAICGGCAGTAGCACGGCCATCCAGGAGCTCTTCAAGCACATCTCGGAGCAGTTCACTGCCATGTTCCGC
CGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGACGAGA

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FIGURE 2516

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGSHVS
ISLCLALPLSPAVEASSIELSQCRNSPSRSSMPRT

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FIGURE 2517

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAATTAATTTTAACCATGAGGGAAATCGTGCACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCAGACAACCTTTGTATTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAG
AGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCT
TCCAGCTCCCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGA
TGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACATATCAAGACAGC
TGCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCT
CTTCAAGCACATCTCGGAGCAGTT

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FIGURE 2518

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEA

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FIGURE 2519

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCAGCCTGCGACCTGCAGAGAAAAAAATTACTT .
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCTCTGTCCTACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCTTTTGGCC
AGATCTTTAGACCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGT
CGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGAC
AGCTGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGA
GCTCTTCAAGCACATCTCGGAGCAGTTCAGTGCCATGTTCCGCCGAAGGCCTTCCTCCACTGGTACAC

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FIGURE 2520

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRI SVYYNEATGGKYVPRAILVDLEPGTMS
VRSGPFGQIFRPATADTSPWLLSSVVGCP

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FIGURE 2521

CTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTTATTTTCTTGCC
CCGTACATAACCTTGAAGTGAGCAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAGGCTGGTCAG
CGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGTCCATGAAGGAGGTGCGATGAGCA
GATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTG
TGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAA
GCACATCTCGGAGCAGTTCAGTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGA
CGAGATGGAGTTCACCGAGGCTGACAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCAC
CGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCAAAGAGGAGGCCTAAGGCAGAGCCCCATCACCTCAGGCTT
CTCAGTTCCTTAGCCGTCTTACTCAACTGCCCGTTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTG
TTTTTGTTTTTCTTCTGGGGAGGGTCTAGAACAGTGCCTGGCACATAGTAGGCACTCAATAAATACTTGTTTG
TT

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FIGURE 2522

MREIVHIQAGQRGNQIGAKFWEVISDEHGIDPTGTYHGSDQLDRLSVYYSEATDGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVIESYNATLSVHQLVENTDETYCIDNEALYDICFRTL RVTTPTYGDL
NHLLRDTMSGVTTCLRFPGQLNADLCKLAVNMVFPFRLHFFMPGFAPLTSHGSQQYRALTVPELTQQVFDAKSMM
AACDPRHGRYLTVAADFRGRMSMKEVDEQMFNVQKNSSYFVEWIPNNIKTAVCDIPPRGLKMAVTFIGSSTAIQ
ELFKHISEQFTAMFRRKAFLHWYTGEGMDEMEFTEADSNMNDLVSEYQQYQDATAEEEEEDFGEEAKEEA

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FIGURE 2523

GGGGACGCCGAGGGCGGCTGCGACGCGCCGAGAGGCCGCGGCTCTCCACCTGTCACCCTGGCCCTTCTCTGCTT
GGATGGTGTCTTCTCTCTCTCAGCCGAGAATGACTTCGTCCACCGGATCCAGGAGGAAC TGGACCGCTTTCTGCT
GCAGAAGCAGCTGTCAAAGGTTCTTCTTTTCCCCCACTCTCCAGTCGCCTCCGGTACCTGATCCATAGAACAGC
AGAGAAATTTGATCTCTTGAGCAGCTTCTCCGTTGGGGAGGGCTGGAAGAGGAGGACGGTCATCTGTCAACAGGA
CATCAGGGTACCCAGTTCGGATGGCCTCTCTGGCCCCCTGCCGCGCTCCTGCCTCCTGCCCCAGCAGGTACCACGG
TCCTCGGCCCATCTCCAACCAAGGAGCAGCTGCGGTTCCCCGAGGTGCCCGGGCTGGCCGGTGGTATCGTGGACG
CAAGCCTGACCAGCCTTTGTATGTGCCCCGGGTGCTGCGCAGGCAGGAAGAATGGGGGCTGACCTCTACCTCGGT
GCTCAAGAGAGAGGGCCCCAGCTGGCAGGGACCCAGAAGAGCCTGGAGATGTTGGTGCTGGAGACCCCAACTCTGA
TCAGGGACTCCCTGTGCTGATGACTCAGGGAACAGAGGACCTAAAGGGCCCAGGACAAAGGTGTGAGAATGAGCC
ACTGCTGGACCCTGTTGGCCCTGAGCCTCTGGGGCCTGAGAGTCAGTCAGGGAAGGGAGACATGGTGGAGATGGC
CACACGTTTGGGTCCACCCTGCAGCTAGACCTGGAAAAGGGGAAGGAGAGTCTGTTGGAGAAGAGGCTGGTGGC
AGAGGAGGAAGAGGACGAAGAGGAGGTGGAAGAGGATGGCCCCAGCAGCTGCTCGGAGGACGATTACAGTGAGCT
GCTGCAGGAGATCACAGACAACCTGACGAAGAAGGAGATTCAGATAGAGAAGATCCATTTGGACACATCCTCCTT
CGTGGAGGAGCTGCCTGGAGAGAAGGACCTTGCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGAC
GGAGGACCTGCTGGCAACGTTTTCTGAGTTCCAAGAGAAGGGGTTTCAAGATTCAAGTGGGTGGATGATACTACGC
ACTCGGCATCTTTCCCTGCCTGGCCTCAGCTGCGGAAGCCCTGACCCGGGAGTTCTCGGTGCTCAAGATCCGGCC
CCTCACACAGGGAACCAAGCAGTCAAAGCTCAAAGCCTTGCAAGAGGCCAAAACCTCTGCGTCTGGTGAAGGAGAG
GCCACAGACAAATGCGACTGTGGCCCGGCGGCTGGTGGCCCGGGCCCTGGGACTCCAACACAAAAAGAAAGAGCG
GCCTGCTGTCCGGGGTCCGCTGCCGCCCTGAGGCCTGGAGACCCAACTGGCCTGGATCTGCGTCCCGACGTAGCT
GGCGCCCCAACACCATAAGCCTTCACAGACGCCAGAGCAGCCCCGCACCACCCTCGAGCTTCACCATGGGGTGT
GGTGGGCTTTAGTTTAGTCCCAGAAATGGAGAAAAAATAAAACTCACGTTGTTCT

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FIGURE 2524

MTQGTEDLKGPQRCENEPLLDVGPPEPLGPESQSGKGMVEMATRFGSTIQLDLEKGKESLLEKRLVAEEEEDE
EEVEEDGPSSCEDDYSELLQEITDNLTKKEIQIEKIHLDTSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLAT
FSEFQEKGFRIQWVDDTHALGIFPCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAT
VARRLVARALGLQHKKKERPAVRGPLEPP

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FIGURE 2525

CAGGTACCTGGGGGTGGTTAAGTTGGTGACATGGCTCAGAAGTTTATTTCTTTAAATTTTAAAGTTTTTTTCTT
TTAGTCTTCAGAAAGGCAACAGTAGTCTTTTAAACGTCACTGTTAAAAGTGTAAAGACTCTTTTACTCCCTGAGAG
TCCCTTTTCCCTTTCTTGCGTCCTTTCCCTCTTTATTCTTTTTTTTTTTTTTTTTTTTTTTTACTGAGACGGAGTCTCAC
TCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAAACCTCCGCCTCCCGGGTTACACCTTTCT
CTTTATTCTTATCCCGGTGAGACTCGCCCCCTCCTCCAAGACATCTCTCTGTTTTATTTTATTGATTTTAGTTC
TCTTTGGGTGATCGCTCCTTCCCTCTTCAACGGATCCCTCCCGCCTCCATCCTCGTTCTGTGGGAGAGACCAGC
CTTCTGGTGCTGCAGTCAGGAATGGAGCTTGACAGCGCTCTGGAAGCCCCATCGCAGGAAGACTCTAATTTGTCC
GAGGAGTTGTCTCACTCCGCCTTTGGACAGGCCTTCTCCAAGATTTTACACTGTCTTGCCCGCCCGGAGGCACGA
CGAGGCAATGTAAAAGATGCAGTTCTTAAAGACCTCGGTGATCTAATAGAAGCCACAGAATTTGATAGGTTATTT
GAGGGGACTGGTGACGGCTCCGCGGAATGCCGGAGACACTGGGGCAGGTAGCAAAGCCCTGGAGAAGTATGCA
GCCCCCTCCAAGGAGGAGGAAGGTGGAGGTGATGGGCACTCCGAAGCGGCCGAGAAAGCAGCCCAAGTTGGGTGA
CTGTTTCTTAAACIGTTAGGGAAAGTTGAGACTGCTAAGAATTCCCTGGTGGGCCCTGCATGGCAGACGGGCCTG
CATCACTTGGCAGGACCCGTTTATATTTTGGCCATCACACACAGCTTGGAGCAACCATGGACCACTCCGAGATCT
CGGGAAGTTGCTAGGGAGGTGCTCACCTCACTGCTTCAAGTTACTGAATGCGGTTCTGTGGCAGGATTCCTACAT
GGAGAAAATGAAGATGAGAAAGGGAGACTTTTCGGTGATACTAGGGCTTCTCAAACCCGACTTGTATAAGGAATCC
TGGAAGAATAACCCTGCCATCAAACATGTTTTCTCATGGACTCTGCAACAGGTCACTCGGCCCTGGCTGAGCCAG
CATCTGGAAGGGTACTTCCCGCATATTGGTCATTTAGATGACTATCAGACTGAGAACAAAATCCTGGGTGTA
CACTGTCTCCATCACATTGTGCTTAATGTG

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FIGURE 2526

ATGTCCGGGGGCAGCAGCTGCAGCCAGACCCCAAGCCGGGCCATCCCCGCCACTCGCCGGGTGGTGCTCGGCGAC
GGCGTGCAGCTCCCGCCCGGGGACTACAGCACGACCCCGGCGGCACCGTCTTCAGCACCACCCCGGGAGGTACC
AGGATCATCTATGACCGGAAATTCCTGATGGAGTGTGCGGAATCACCTGTGACCAAAACACCCCAAGGGATCTG
CCCACCATTCGGGGGGTCACCAGCCCTTCCAGTGATGAGCCCCCATGGAAGCCAGCCAGAGCCACCTGCGCAAT
AGCCCAGAAGATAAGCGGGCGGGCGGTGAAGAGTCACAGTTTGAGATGGACATTAA

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FIGURE 2527

AAGTGTCCCCTCCTACTTCTTGCTGCCTCACGGTTGCTGTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGGCT
TTGGGGCCGGTTGTGAGATGCCAGGCAGAGGCCGCTGCCCGGACTGCGGGCTCCACGGAGCTGGTGGAAAGACTCGC
ACTATTGCGCAGAGCCAGCTGGTGTGCTCCGACTGCGGGCTGCGTGGTCACCGAGGGGGTCTTACCACTACCTTCA
GCGACGAGGGCAATCTCCGAGAGGTAACATATTCCCGAAGCACAGGGGAAAACGAACAAGTTAGTCGCAGCCAGC
AACGAGGTCTCCGGCGAGTGAGAGACCTTTGTGAGTTCTGCAGTTGCCACCAACATTGAGGATACCGCGGTTG
CCTACTACCAACAGGCATATCGGCACTCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGT
GCTGCGTCTTAATCACCTGCCGACAGCATAACTGCCCCCTAACATGGGGGCCATCTGCACGCTGTTGTATGCAG
ATTTGGATGTGTTTTCTAGCACTTGCAATGCAGATAGTGAAGCTCCTGGGACTGGATGTGCCATCTCTGTGCTTGG
CAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAAGCTTCAAGCTTACCTTCTGTGCCAGCCAAATACGTGG
AAGACAAAGAGAAGATGCTGTCTCGAACAATGCAGTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGA
GGCATCCCTTGCCCGTCATCACTGCTGCGACTTTCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTTCAT
GTTCCCTTGCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCCCGCCTGCAGGAGCTGC
TGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGAGACTTGACAAACGGTCTGTGGTGA
AGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACTGGTCCGCTCTGCCTTTCCGGATGGGACAGCAGAAGTGG
AGACCCGAGAGAAGGAGCCACCGGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCCTTAGGTT
TACCCGAGGGGAAGCGGCCGGCCAGTCTGCCCCCTCTTTGCCACCTGCATGTTGAAGTCCCCGAAGCGGATCT
GCCCTGTACCCCTGTCTCCACTGTCACTGGAGATGAGAACATTTCTGATAGTGAAATAGAACAGTATTTGCGTA
CCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCTAGACAGGCTGCCACGAGTGCCCTAACCCCTCCCT
GATGGATATCCACTGGGAGCACTTCATCCTGTTCTGACAGCTTGATAACATTCCTGTTATAACCAAGGATGGAAG
TGTACACCAGTCCGTAGGTATTGCTTTTCTTGTGTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCTGG
GTCTGGAGTAAAGTCAGGAGTGCAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGGTGTGGGAGAGCAA
GTTGCCTATGTCATGTTCTGTGAGATGGCTTTCCTCATAGATGGATGGGAAAATGTCAGGCTCTTTGCTGCTGG
TTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAGGCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCA
TTCCAGCAGTATCAACCCTCAGAGGAGCGGGAAGTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATG
GGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCA
AAGGGCTTTGCAAAATTTAATATATTAACAAAGAGGCATCTGCTAGAAAACATTCTATTGTATAAAACCCGAG
TTCTT

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FIGURE 2528

MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTTFSDDEGNLREVTYSRSTGENEQVSRSQQRGLRR
VRDLCRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFS
STYMQIVKLLGLDVPSLCLAEVLKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLVTGRHPLPV
ITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLRDKRSVVKHIGDL
LQHRQSLVRSAFRDGTAEVETREKEPPGWGQGEGEVGNNSLGLPQGKRPASPALLLPPCMLKSPKRICPVPPV
STVTGDENISDSEIEQYL RTPQEV RDFQRAQAARQAATSVNPP

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FIGURE 2529

TTCATTGCGCCAGTGACTAAAAAGAGAATTAAATATGGGTGATGTTGAGAAAGGCAAGAAGATTTTATTATGAA
GTGTTCCCAGTGCCACACTGTTGAAAAGGGAGGAAAGCACAAAGATTGGGCCAAATCTCCATGGTCTTTTCAGGTG
GAAGACAGGTCAGGCCCTGGATACTCTTACACAGCCGCCAATAAGAACAAATGCATCATCTGGGGAGAGGATAC
ACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCAGCATTAGAAGAA
GGAAGAAAGGGCAGACTTGATAGCTTATCTCAAAAAGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTAT
TACTACACCAGAATTCAGATCATGAATGACTGACAGAATATTTT

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FIGURE 2530

GCGACCCCTCTTCTTTGCGTAGAGTTTTTCAGGTTGCTCCTGGAAACCATGCCGAAAGTAGTGTCTCGGTCAGTAG
TCTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCTCCATGTGTACTACTGTTTGTGCG
GCCAGGTGGTTCCTAGTGCTGGACTGTGAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCCTGTGATTG
ATGCTGCCAAACATGCCCATTAAGTTTTGTAAACACAGAAGACGAAGAGACTATGTATCTGCGGAGACCTGAAGGCA
TTGAACTACAGTACAGAAAGAAATGTGCAAAGTGTGGACTGCTGCTCTTCTACCAATCCCAGCCGAAGAATGCTC
CCGTTACCTTCATTGTGGATGGAGCAGTCGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGA
AACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACTGTGT
CTACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCGTATGCACAGAATGCCAAAGTGA
TTGAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCCACTGCAAGAGCTGGCTGAATGGGAACCCAGGAAA
AGTGAAGATGAAGGGGACCCTTGATTGACAACCAAGTTCAAATAACCAGGCTTTTTTCTGAGCCCTAGACTGGAG
GCAAGCATTTAGATCAGGAGACAAAGTAACCTTCTTGATTACATAGACTGGTTCCTATTTATATCCCAGCAGAAGG
CTTTATGTTGTTTCCCATTGATTCTCTACATGCAGTGAGGTCTTTAACTGAGTCCATTTGACCTGCTTCT

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FIGURE 2531

GGCGGCGGCAAGGGCGGGAGGGAGCGGTGCGCCGCGGGATTGAGAGCTGCCTAGCCTCGCGGTGCTTTGGCAGCA
TGTAAGCAGCTGTTTGCCAAGAACCAGGTCACTGCTAAGAAAGGGTGCCCTTCGGGAGAAGAGTGTCCAGAGGAT
ACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGCCAGCATCTCTTTCTCT
CTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCTGTGAGCACCAGGAGCCTTGCCAGAGGAGGAT
GGGGCCAGATATGAACTCTCTACCATGAACATGGTTCTCGGCTTATGAAGGAATTTTAAGTAAAACAGTTATTTA
ATTTCCACATATTCAAGTCAAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGATT
TTTCTGGCACCAAGTTTAATTCTTCTCGTACTTCTGGTAGTGACAGATCTGCAGGACAGATTTATCTGTTGAAT
GCTCTTGGGCAGGAAAACCATGTAAAACCTCTGGAAGCAGCATCAGGACAGCAGAGCAGAGCCCCGTCCTCACT
GCTCACTTGACAGAACTCCATCTGGACTCGGATGCTTTTACTGAAGACCCATCTAGCTTCAATCATCTTTAGA
GTCCATCCATTCTGGAGAGACCTGGCGTTTGCAAGTTGCCTCCTGTGGCCGTGTTTTCTGTCACTTCTGTTCCAG
GCCTTCTATTACAGGCGGTTGAAGGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGGGAACCTTGCTTCTTTC
CCTGGCTGGTGCTGTGAGGAAGGACCATCTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCT
GGATCTTCCACCATGTTTCTGTGTGCTGCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTC
CTCTTACCCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTGGAGTCTCCTTTGGTATCCGCAAACTCTAC
ATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAAATGGAGCGAGGAGCCAAGGAGAAGAACCACAG
CTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAGAGATTCTGT
CGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAA
GGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCTTGAACCTGCTG
AGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGTTAGGAGTGTGATTCTGG
TACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTCACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTG
GTGGGATACTTGCCAAATGGGAGGTTTAAGGAGTTTCAAGTAAACATGTTCACTTAATGTGTTACCGGATCTGC
GTGCGAGCGCTGACAGCCATCATCACCTACCATGACAGGGAACAGACCAAGAAATGGTGGCATCTGTGTGGCC
AATCATACCTCACCGATCGATGTGATCATCTTGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGG
GGACTCATGGGTGTGATTAGAGAGCCATGGTGAAGGCTGCCACACGCTCTGTTTGAAGCGCTCGGAAGTGAAG
GATCGCCACCTGGTGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCCCA
GAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAAGTTTTGAAATGGAGCCACAGTTTAC
CCTGTTGCTATCAAGTATGACCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAATACGGGATGGTGACGTAC
CTGCTGCGAATGATGACCAGCTGGGCCATTGTCTGCAGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGAT
GAAGATGCTGTCCAGTTTGCGAATAGGGTGAATCTGCCATTGCCAGGCAGGAGGACTTGTGGACCTGCTGTGG
GATGGGGGCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAGAAGCTGTACAGCAAGATGATC
GTGGGGAACCAAGGACAGGAGCCGCTCCTGAGCCTGCCTCCAGCTGGCTGGGGCCACCGTGCGGGGTGCCAAC
GGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCCACTGCTGTGTCTTCCAGACTCCAGGGCTCCCCGGGTGCT
CTGGATCCCAGGACTCCGGCTTTCGCCGAGCCGAGCGGGATCCCTGTGCACCCGCGCAGCCTACCTTGGTGG
TCTAAACGGATGCTGTGGGTGTGCGACCCAGGACGAGATGCCTTGTCTTTTACAATAAGTCTGTTGGAGGAA
TGCCATTAAAGTGAACCTCCCACTTTGACAGCTGTGCGGGCTGAGTGGTTGGGGAGATGTGGCCATGGTCTTGT
GCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCCGTGTGCCAGGGATGTGCTGGGGGCGGCCACCCGCTCT
CCAGGAAAGGCACAGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCCAGCCTTGGAGCTCTGCAGAC
ATGATAGGAAGGAACTGTCTCTGCAGGGGCTTTCAGCAAAATGAAGGGTTAGATTTTATGCTGCTGCTGATG
GGGTTACTAAAGGGAGGGGAAGAGGCCAGGTGGGCCGCTGACTGGGCCATGGGGAGAACGTGTGTTCTGTTCTCA
GGCTAACCTGAACCTCCCATGTGATGCGCGCTTGTGTAATGTGTGCTCGGTTTCCCCATCTGTAATATGAGT
CGGGGGGAATGGTGGTGAATCTTACCTACAGGGCTGTTGTGGGGATTAAAGTGTGCGGGTGAAGTGAAGGACAC
ATCACGTTCACTGTTTCAAGTACAGGCCACAAAACGGGGCACGGCAGGCCTGAGCTCAGAGCTGCTGCACTGGG
CTTTGGATTGTTCTTGTGAGTAAATAAACTGGCTGGTGAATG

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FIGURE 2532

MFLLLPFDSLIVNLLGISLTVLFTLLLVFIIVPAIFGVSGIRKLYMKSLLKIFAWATLRMERGAKEKNHQLYKP
YTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCRKGMETIMDDEVTKRFSAEELSWNLLSRTN
YNFYISLRLTVLWGLGVLRICYFLLPLRIALFTGISLLVVGTTVVGYLPNGRFKEFMSKHVHLMCYRICVRAL
TAIITYHDRENRPNGGICVANHTSPIDVILASDGYAMVGQVHGGLMGVIQRAMVKACPHVWFERSEVKDRHL
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMMFKKGSFEIGATVYPVAIKYDPQFGDAFWNSSKYGMVTYLLRM
MTSWAIVCSVWYLPPMTREADEDAVQFANRVKSAIARQGGLVDLLWDGGLKREKVKDTFKEEQKLYSKMIVGNH
KDRSRS

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FIGURE 2533

GAACCCTAGGTTGTTGGATGATGTCAGCTTCCATCCTTGTTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCT
CTCCTTCATCCTCCTGATGGAACTTCCGCCTGCTGTCTTACCATGTCAGTGCACAGAATCTGGTTGCAATCCC
AGTGTATGTCAAACATAACATCAGTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCCAA
GCAGACGATGGGGAAGACCATTGAGGGAGTGATTGTCACCAGCCAGATGCCCAAGGGGGTCTGAACATGAGCCT
TACTCCATCACAGGGGACACACATTGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCC
ACAAAAGCTACCAAGTTTGAAGGGGACCATGAGTCTTCAGGCTGGAGCTTCCAAACCAGATGAAAACCCCAAT
TAACCTGCAGTTTAAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGAAAA
GTACAAACCCTTTAAAGGGCATAAAATACATGACCAAAGCTGGGAAGTTCCAAGTTCGAACCTGAAGGGAGCATT
GCTGAGGGAATAGTCTTGACATTTTTTTCATTTCTTACTTGTCTAAAAGTAAAAAAAATATCAGCCTGTCTCCT
AGGTGAGTCCCTCCTGGACCCACCCGCTCCCTTTTTTCTTACGCTTCAGTGCCATGGAACATAACAGGGAGG
AAAAGGTACACAGGGAGAACTGGACAGAACTGAAACACAGCAACACCAGTTCTCAAGGACAAGGTGTGTGATGGG
GGTAGGAAGCTTGGTGCTTATGTAACCATTTTAAACGTGGTTTCTATAGGAAAGACCAACATTTGTTTAGCTTGC
TTGGCTTTAATTATCTAAAGCCAATGAAAGACTTCTTTGTTGATTTTTTAAGATAGAAAGATTAAAAAGAAAGAA
AGATGGGAAGAAAATGAATGTTAGTCAAGGAAAGGCCACTTAAGGATCTGCTCTATGAAGGAGAAGAAAGAGGAA
AAAGAAGTAAAGGAGTTAGGAGGAGACACTTAAATGAAAGATTGGCAAGAAAAGCAGTCGGACTCTACCTTAAGG
AGGGATGGGAAGGAAAGAGTTGAGTTGGTTTCTTCTGATTCTCTACTCATGTAGAAAACACTTGTACTTCTGG
AAATGGACTGGAGACTTTTTAAATTTGAGTCCACTATTGACATGGAAACCCAGTGGAAATCAGATTTTCCCTCAA
AGACCATGATGGTATCGGACTAGTTTTTCAGACACTGCCTGTTGCTGTCCATCAGCACTTGGTCTCTTATCTTCAG
TGAGAAGGTGACCCGCTTCTTCCCATGGTGGCTGCCTAAAGTGCTTCTTTTCTAACCCAAAACAGTTCTACTCA
CTTCTTTTACAGAATTACCCGGCCATTTTCTGTTACCTGATCCTTCTACAGGATTTTAAAAAGTAAGAGAGT
TTCAGAGAAGCCGATCCCATAAATCCCCAGTGACCCAGGGTTTGTGTGTCTCGTACTGGAGTAGAGGGCCGACT
CTTCCCATGAAGGTGAGCACAGCTGTGAGTGAGTGAGCTCATATCTCCATTTGTCAGTGCTGGACTGGTACCAGA
TCGTAACCTTCCCGTTGGTCGGAACTTTTCCATCTGTGCGCCCTAGAAAAAGAGAAAGCTTACCATCGAGGGTGT
GGTTGATCCTTGAAGCTGCTTGGTAAAGTTATCATTTCTCAGTCTTTTCTTTTGTACTCCTATCATGTATTAT
TAATATCTACCAGTCCCTTTTCAATTCTAAGACAAAACATTTCTCCTAAATCTCTGAATAAAATCAGTGCTGTAGG
AAGATGGACTGTGTTGATCATGGGTGTAAGCAACCCAGTTTAAAGAAACATGGCAACTAAAGGGATACCTCAGGCT
TCTTTTCCAGTGGGTCATTTTGTCTAGTTCAGTGTGTCTGTACTATTTAAATATTTATACAAAAGGGTTTT
TGTTTATAGCTTAAGGAATGATACTGTGCTCTGCTTGGTGCATGGAGAAAAAGGAAGACCCATACTCTCCACACC
CTAGAGCTTTTCTCTAAATATTGTGCAAGTTTTTGCTAGTTTTATCTTCTGACTTTGGGACTAGTTTTTGTCTGC
AGAGTTGTGTTGCTTTTGTGATTTTCTCTGGGATAGTGTACTGTACACAACCAGATGTGTTCCACACTCCGTGAC
TCCGCAGTTTGTCTTGAGTGACATACATCCACCATGGAAGGGAAGCATCTCTGCCTGTGGATTCTCAAGTA
CTTGAAGCACCTCTCCTGAGGAACCTACAGGATTCTAAGGTTTCTAGGTCAGTGAACAATACTTGGTCCC
TGAATATTTCTAGGTTTGTAAAGTGCAGCAGTTTTATTTCTCTAGAACTCATCTGTTTCAAGGGAAGTACCTAA
GAAGATATAGAGTGTCTAGGGTAAGGGACCTGCAGGTGTAAGCATAGATGAAATAACTGTCTGTACACAGTG
CAGCAGGCCATGGAGTGTAGCGGGCATCGCTGCCGCCATTCTGTCAGCATACCATAAGCAGTGCAGGGTGTCTC
CATCGAGCTGTTGGTTCCATGTGTGTTTAAACATGTGCAGAAGTAGCTTCTGTGTTAAGTTTAAATAAGTTGAG
TTTACACAGTC

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FIGURE 2534

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGCTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATCCATGCCCGATTTCAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCAGAAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCTGGGGAACCACAACACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTACAGCTACCGTGGCACGCACAGCCTCACC
GTCGGGTGCCTCCTGCCTCCCGTGGAAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTGC
CCAGGCACTGGGCTGGGCAAACATAATTACTGCCGAATCCTGATGGGGATGCCAAGCCCTGGTGCCACGTGCT
GAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGTACAGCCA
GCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGCCATCTTTGCCAA
GCACAGGAGGTGCGCCGGAGAGCGGTTCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGATTCTCTCTGCCGC
CCACTGCTTCCAGGAGAGGTTTCCGCCCCACCCTGACGGTGATCTTGGGCAGAACATACCGGGTGGTCCCTGG
CGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACACTTACGACAAATGA
CATTGCGCTGCTGCAGCTGAAATCGGATTGCTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCGCACTGTGTGCCCT
TCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGGCCTTGT
TCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTCAGACTGTACCCATCCAGCCGCTGCACATCACAACATTT
ACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAGGCAAACCTTGCA
CGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTGGTGGGCATCAT
CAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTACCTAGACTGGAT
TCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCCTCTTCTTCTTCA
GAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGGACGAGACC
CTACAGGAGAGGGAAGAGTGCATTTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTGGTCTGATTTTCAG
GATACTCTGTGATGAGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGG
CCATGCCACCTGTTTTTCAGCTAAAGCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAAACAGGACCACA
AAAATGAAAGCATGTCTCAATAGTAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATTAGAAATAGACAG
TATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCATGTTCTCTCAAAA
GCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCACTCCCTGGCTCTCAGAAGGTATTCCCTTTTGTGTACAGTG
TGTAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTGAACAACCTAGGCT
TCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTGGCACAAACCCTGTTTTTACTGTACTTAATAA
ATTCAGATATATTTTTCACAGTTTTTCC

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FIGURE 2535

MDAMKRG LCCVLLLCGAVFVSPSQEI HARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCW CNSGR
AQCHSV PVKSCSEPRCFNGGTCQQALYFSD FVCQCEGFAGKCCEIDTRATCYEDQG ISYRG TWSTAESGAECTN
WNSSAL AQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGN SDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAQA LGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCG
LRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFP PHHLTIVILGRT
YRVVPGE EEQKFEVEKYIVHKEFDDDTYDNDIAL LQLKSDSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYG
KHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGD SGGPLVCLNDGRM
TLVGII SWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2536

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTGAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAAGCAACCGGGTGGAAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCAGAAAGCCCTACAGCGGGCGGAGGCCAGCGCCATCAGGCTGGGCCTGGGGAACCACTACTGCGAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCTGTCTGTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTCAGCCTACCGTGGCACGCACAGCCTCACCGA
GTGCGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAAACCCAGTGC
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCAT
GAGGCCCTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTTCAGACTGTACCCATCCAGCCGCTGCACA
TCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGGGGCCCCAG
GCAAACTTGCACGACGCCCTGCCAGGGCGATTCCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTG
GTGGGCATCATCAGCTGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTAC
CTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCT
CTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACCCGAGAAGC
GGGACGAGACCCTACAGGAGAGGGAAGAGTGCAATTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTGG
TCTGATTTTCAGGATACTCTGTGATGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGG
GCAGAAAGTGGCCATGCCACCCTGTTTTTCAGTAAAGCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGAA
ACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATTA
GAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCAT
GTTCTCAAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTCCCCACTCCCTGGCTCTCAGAAGGTATTCTTTT
TGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGA
ACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTACTTTCTGTTGCCACAACCCGTGTTTTATACT
GTACTTAATAAATTCAGATATATTTTTTACAGTTTTTCCAAAAA

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FIGURE 2537

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLRNVRVEYWCNSGR
AQCHSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTN
WNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAQAALGLGKHNYCRTGRSVSSPATASMRPCLLSIRSG

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FIGURE 2538

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGCTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATCCATGCCCGATTAG
AAGAGGAGCCAGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTA
CTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGTGTGAAATAGATACCAGGGCCACGTG
CTACGAGGACCAGGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAA
CAGCAGCGCGTTGGCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAA
CTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTT
CTGCAGCACCCCTGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTCAGCCTACCGTGGCAGCA
CAGCCTCACCAGAGTCGGGTGCCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACA
GAACCCCAAGTGGCCAGGCACTGGGCCTGGGCAACATAATTACTGCCGAATCCTGATGGGGATGCCAAGCCCTG
GTGCCACGTGCTGAAGAACCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCCGCCCTGAG
ACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGC
CATCTTTGCCAAGCACAGGAGGTCGCCCCGAGAGCGGTTCCCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGAT
TCTCTCTGCCGCCCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATACCG
GGTGGTCCCTGGCGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACAC
TTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCG
CACTGTGTGCCCTTCCCCGGCGGACCTGCAGCTGCCGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCA
TGAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTCAGACTGTACCCATCCAGCCGCTGCAC
ATCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCA
GGCAAATTTGCACGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTT
GGTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTA
CCTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCC
TCTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAG
CGGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTCCAGATACTTCCCATTTTGGAAGTTTTCAGGACTTG
GTCTGATTTTCAGGATACTCTGTGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTG
GGCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGA
AACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATT
AGAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCA
TGTTCTCTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCTACTCCCTGGCTCTCAGAAGGTATTTCCTT
TTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTG
AACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTATAC
TGTACTTAATAAAATTCAGATATATTTTTCACAGTTTTTCCAAAAA

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FIGURE 2539

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQGCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEI
DTRATCYEDQGISYRGTWSTAESGAECTNWNSSALAQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAG
KYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAQALGLGKHNYCRNP
GDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGIL
ISSCWILSAAHCFQERFPPHLLTVILGRTRYRVVPGEEOQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQ
ESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDT
RSGGPQANLHDACQGDGGPLVCLNDGRMTLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2540

GGAGGGGCGGGGCCTCCGCCACCACCTCAGCTGCGGACCGAGGCGAGATGGCGGCCACCGAGGGGGTCGGGGAGG
CTGCGCAAGGGGGCGAGCCCGGGCAGCCGGCGCAACCCCGCCCCAGCCGCACCCACCGCCGCCCCAGCAGCAGC
ACAAGGAAGAGATGGCGGCCGAGGCTGGGGAAGCCGTGGCGTCCCCCATGGACGACGGGTTTGTGAGCCTGGACT
CGCCCTCCTATGTCCTGTACAGGGACAGAGCAGAATGGGCTGATATAGATCCGGTGCCGCAGAATGATGGCCCCA
ATCCCGTGGTCCAGATCATTATAGTGACAAATGTAAGTTTTTATGATTACTTCCGAGCTGTCTGCAGCGTGA
TGAAAGAAGTGAACGAGCTTTTAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCA
TTCCGGAGAGTTCTTTTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGA
GGAGCAGCCCCAAAACATCAAGTTTGGCATCATAGGCGAGTATTAGTGGAATGGCTAAGAGATCCATCTCAGGA
GCTTGAATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGGTTAT
TCAGGTATT

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FIGURE 2541

AACTTTTAAAACTCTCATTGGAGTAAGTCTTTTCAAGATGATCCTCCACAATGGAGGCAGCGTTCCTACTTGTC
ATCACACAGCTGAAGACATTGTTTCTTAGGTGTGAAATCGGGGACAAAGGACAAACAGAGACACACGGCATTGTT
CATGGGAGGCATCGTCACCCTCCTGGGTGTTCTGTGGGAATTTCTGTGTGAGGAAAACGTGGCCACAGGGTGT
GCTGTACCCACCCTTCCCCGGCGAGATGGCCCTCGGCCTGTGCCGCTGCTTCCACCCTCGCCACTCCATGGCAGC
TTTTGGTCTGTTTCCGGCTCTGCCCTCTGCCCTGAACTCTCATCCGGCTTGTACCTGCCTGCTGGACCCCTCCAC
CTGGAGGCCAGCCCATGTCTCAGGCCAGCCCTAGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTT
CCCTGGCTTTGTGAATGGATCAIGTGTCTCTAGGTATAAACCTGACATCATCTTCCACCCGGCTTACCTCCACC
AGATCTCCCCAGTTCTGTCTCCATCTTCTGCCTGCAGCTGCTCTGTTCTCATGGTCACTGCTGCATCACTGAGTC
TGGACCCCTTGTTATCATTTTCAAACCTGGCCTCCTTCCCTCGTTCCCCACTTCTTAAAGTCACCTGTCCATTGCCA
CCAGATTAAAGCTTTCTCCAGCCAGATCACCTCTCTCTGAGAAACCTCCATTGACATGGAAACACCATTGTCTGGC
ACACATACTCACATACCCACCTTCCCGTCTTGATCCCCACACATCTTCCAGCCTCCCCTCCCACTCCACTCCCT
GCTCTCTCCTCCACCTCCCCATCCTCTTGTCTCCCTCCCCTCTGAATCCAGCCCAGCGGGGCTTCTCCTGCCTC
CATCACATCACAGAAGTACCTCCTGCTTCTGGTTTTAATTAGAGCCTTCCCCGATTACATTTTCTCTGAATTTT
TTCTATCTACATTTGATCTGTCTATGTTTAAACCCCTACTTCTAAGGGAACCTTCTCTAATCTCTTATCCTCATC
CCCAAATAGTGTTTTCTTCTCTGGGTCTTATAATGTTGGTATCAATCTCACAGCATTTAGTGCTTCTGCCTG
GTGTGACAGTTACCTGTGTGCAATTTCTAATTTCCACGCTAGACTGTGAGCTTCCTAAGGCAAGAATC
ATGCCTCGTTGGTTTCTGTATTCTCATGGTGCCAAACACAGTGCCTTCTACATTGCAGGCGCTGAATAAACATT
TTTAAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 2542

MALGLCRCFHPRHSMAAFGLFPALPSALNSHPACTCLLDPSTWRPAHVSGPALASSPQILSVFSLGFPGFVNGSC
VSRYKPDIIFFPGLPPPDLPSVSIFCLQLLCSHGHCITESGPLLSFSNWPPSLVPHFLKSPVHCHQIKLSPAR
SPLSEKEPPLTWKHHCLAHILTYPPSRDPHTSFQPPLPLHSLLSPPPPHPLVSPPL

FIGURE 2543A

[illegible]

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FIGURE 2543B

ACCCTGGATGAGCGACTTCAAAGTGGAGTTCCTGAGAAATGAGCTGGAGATTCCCGGTCAGTATGACGGTAGGGG
AAAGCCATTGCCAGAGTACCACGTGCGAATCGCCGGGTTTGATGAGCGGGTGACAGTCATGGCGTCTCTGCGAAG
GCCCCAAGCGCATCATCATCCGTGGCCATGACGAGAGGGAACACCCCTTTCTGGTGAAGGGTGCGAGGACCTGCG
GCAGGACCAGCGCGTGGAGCAGCTCTTCCAGGTCATGAATGGGATCCTGGCCCAAGACTCCGCCTGCAGCCAGAG
GGCCCTGCAGCTGAGGACCTATAGCGTTGTGCCATGACCTCCAGGTTAGGATTAATTGAGTGGCTTGAAAATAC
TGTTACCTTGAAGGACCTTCTTTTGAACACCATGTCCCAAGAGGAGAAGGCGGCTTACCTGAGTGATCCCAGGGC
ACCGCCGTGTGAATATAAAGATTGGCTGACAAAAATGTGAGGAAAACATGATGTTGGAGCTTACATGCTAATGTA
TAAGGGCGCTAATCGTACTGAAACAGTCACGTCTTTTAGAAAAACGAGAAAGTAAAGTGCCTGCTGATCTCTTAAA
GCGGGCCTTCGTGAGGATGAGTACAAGCCCTGAGGCTTTCTGGCGCTCCGCTCCCACTTCGCCAGCTCTCACGC
TCTGATATGCATCAGCCACTGGATCCTCGGGATTGGAGACAGACATCTGAACAACCTTTATGGTGGCCATGGAGAC
TGGCGGCGTGATCGGGATCGACTTTGGGCATGCGTTTGGATCCGCTACACAGTTTCTGCCAGTCCCTGAGTTGAT
GCCTTTTCGGCTAACTCGCCAGTTTATCAATCTGATGTTACCAATGAAAGAAACGGGCCTTATGTACAGCATCAT
GGTACACGCACTCCGGGCCTTCCGCTCAGACCCCTGGCCTGCTCACCAACACCATGGATGTGTTTGTCAAGGAGCC
CTCCTTTGATTGGAAAAATTTGAACAGAAAAATGCTGAAAAAAGGAGGGTCATGGATTCAAGAAATAAATGTTGC
TGAAAAAAATTTGGTACCCCCGACAGAAAAATATGTTACGCTAAGAGAAAGTTAGCAGGTGCCAATCCAGCAGTCAT
TACTTGTGATGAGCTACTCCTGGGTCATGAGAAGGCCCTGCCTTCAAAGACTATGTGGCTGTGGCACGAGGAAG
CAAAGATCACAACATTCGTGCCCAAGAACCAGAGAGTGGGCTTTCAGAAGAGACTCAAGTGAAGTGCCTGATGGA
CCAGGCAACAGACCCCAACATCCTTGGCAGAACCTGGGAAGGATGGGAGCCCTGGATGTGA

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FIGURE 2544

GGAGTCCGCGAGCGTCGTCGGCAAGCGGCCGCCCTTTCCACGGTAACCGCGCGCCGGCGGGGAGGGCGTGGCGCGG
AGCCGACGGGAACGTCCGCGCTGCGGAGCAGGGCAGGGAAGCCGGGAGGGCGGGCCCGCCGAGCTTGTCCTTGT
CGCGCAGGTACTCCGAGCACTATGTCGTCCCCGCGCTCGACCCCGAGCCGCGCGGAGCCGGCGTGGAAAGGGCC
ACCCCGCCCCAGACGCCTCGGAGTGAGGATGCCAGGTCACTCTCCCTCTCAGAGACGTAGAGGCGAGGATTCCACC
TCCACGGGGGAGTTGCAGCCGATGCCAACCTCGCCTGGAGTGGACCTGCAGAGCCCTGCTGCGCAGGACGTGCTG
TTTTCCAGCCCTCCCCAAATGCATTCTTCAGCTATCCCTCTTGACTTTGATGTTAGTTCACCACTGACATACGGC
ACTCCAGCTCTCGGGTAGAGGGAACCCCAAGAGTGGTGTAGGGGCACACCTGTGAGACAGAGGCCCTGACCTG
GGCTCTGCACAGAAGGGCCTGCAAGTGGATCTGCAGTCTGACGGGGCAGCAGCAGAAGATATAGTGGCAAGTGAG
CAGTCTCTAGGCCAAAACTTGATCTGGGGAACAGATGTAAATGTGGCAGCATGCAAAAGAAAACCTTTCAGAGA
TTTCTTCAGCGTTTTATTGACCCCTGCGCTAAAGAAGAAGAAAATGTTGGCATAGATATTACTGAACCTCTATAC
ATGCAACGACTTGGGGAGATTAATGTTATTGGTGAGCCATTTTTAAATGTGAACGTGGAACACATCAATCATT
GACAAAAATTTGTACAGACAACTCATCTCTTACCCACAGGAAGTTATTCCAACCTTTTGACATGGCTGTCAATGAA
ATCTTCTTTGACCGTTACCCCTGACTCAATCTTAGAACATCAGATTCAAGTAAGACCATTCAACGCATTGAAGACT
AAGAATATGAGAAACCTGAATCCAGAAGACATTGACCAGCTCATCACCATCAGCGGCATGGTGATCAGGACATCC
CAGCTGATTCCCGAGATGCAGGAGGCCCTTCTTCCAGTGCCAAGTGTGTGCCACACGACCCGGGTGGAGATGGAC
CGCGGCCGATTGCAGAGCCAGTGTGTGCGGGCGCTGCCACACCACCCACAGCATGGCACTCATCCACAACCGC
TCCCTCTTCTCTGACAAGCAGATGATCAAGCTTCAGGAGTCTCCGGAAGACATGCTGCAGGGCAGACACCACAC
ACAGTTATCTGTGTTGCTCACAATGATCTCGTTGACAAGGTCAGCCTGGGGACAGAGTGAATGTTACAGGCATC
TATCGAGCTGTGCCTATTCGAGTCAATCCAAGAGTGAGTAATGTGAAGTCTGTCTACAAAACCCACATTGATGTC
ATTCAATTATCGGAAAACGGATGCAAAACGTCTGCATGGCCTTGATGAAGAAGCAGAACAGAACTTTTTTCAGAG
AAACGTGTGGAATTGCTTAAGGAACCTTCCAGGAAACCAGACATTTATGAGAGGCTTGCTTCAGCCTTGGCTCCA
AGCATTATGAACATGAAGATATAAAGAAGGGAATTTTGCTTCAGCTCTTTGGCGGGACAAGGAAGGATTTTAGT
CACACTGGAAGGGGCAAATTCGGGCTGAGATCAACATCTTGCTGTGTGGCGACCCTGGTACCAGCAAGTCCCAG
CTGCTGCAGTACGTGTACAACCTCGTCCCCAGGGGCCAGTACAGTCTGGGAAGGGCTCCAGTGCAGTTGGCCTC
ACTGCGTACGTAATGAAAGACCCCTGAGACAAGGCAGCTGGTCTTCAGACAGGTGCTCTTGCTCTGAGTGACAAC
GGCATCTGCTGTATCGATGAGTTCGACAAGATGAATGAAAGTACAAGATCGGTATTGCATGAAGTCATGGAACAG
CAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTCTAGCTCAATGCGCGCACCTCTGTCTGGCAGCAGCAAT
CCCATTGAGTCTCAGTGAATCCTAAAAAACAACCATTTGAAAACATCCAGCTGCCTCATACTTTATTATCAAGG
TTTGATTGATCTTCTCTTGCTGGACCCCTCAGGACGAAGCCTATGACAGGCGTCTGGCTCACCACCTGGTTCGA
CTGTACTACCAGAGCGAGGAGCAGGCAGAGGAGGAGCTCCTGGACATGGCGGTGCTAAAGGACTACATTGCCTAC
GCGCACAGCACCATCATGCCGCGGCTAAGTGAGGAAGCCAGCCAGGCTCTCATCGAGGCTTATGTAGACATGAGG
AAGATTGGCAGTAGCCGGGGAATGGTTTTCTGCATACCCTCGACAGCTAGAGTCATTAATCCGCTTAGCAGAAGCC
CATGCTAAAGTAAGATTGTCTAACAAAGTTGAAGCCATTGATGTGGAAGAGGCCAAACGCCTCCATCGGGAAGCT
CTGAAGCAGTCTGCAACTGATCCCCGACTGGCATCGTGGACATATCTATTCTTACTACGGGGATGAGTGCCACC
TCTCGTAAACGGAAAGAAGATTAGCTGAAGCATTGAAAAGCTTATTTTATCTAAGGGCAAAACACCAGCTCTA
AAATACCAGCAACTTTTTGAAGATATTGCGGGACAATCTGACATAGCAATTACTAAAGATATGTTGAAGAAGCA
CTGCGTGCCCTGGCAGATGATGATTTCCCTGACAGTGACTGGGAAGACCGTGGCTTGCTCTGAAGCCTTGTGAGC
AAGGAAGGCTCCCTGCATGTCTGCTTGCTGCACGCCACATGGGTGTGGTCTGCATCTCAGTTGGCCGCCATCAG
TGTAATAGAGCTTAAAGTCATGGTTTTGGCTGCATAAAAAATTTCTAACTTGGGTTCAATATTTGTAGTGAAGTA
TCTGTTTTTCATTTTTTTACGTTATAAATAAAAAATACTATGCTGGCCGGGCGGGTGGCTCACACCTGTAATCCC
AGCATTGTTGGGAGGCCAATGTGGGTGGATCATGAGGTCAAGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACC
CCGTCTCTAGTAAAGATAACAAAAAATTAGCTGGGCTTGATGGCATGCGCCTGTAATCCAGCTACTCGGGAGGT
TGAGGCAGGAGAATCGCTTAAACCCAGGCGGCAGAGGTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCT
CAGCAATAGAGTGAGACTGTCTC

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FIGURE 2545

MSSPASTPSRRGSRRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFSPPQM
HSSAIPLDVDFVSSPLTYGTPSSRVEGTPRSVGRGTPVRQRPDLGSAQKGLQVDLQSDGAAEDIVASEQSLGQKL
VIWGTDVNVAACKENFQRFLQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ
LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMNRNLNPEDIDQLITISGMVIRTSQLIPEMQ
EAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTHSMALIHNRSLFSDKQMIKLOESPEDMPAGQTPHTVILFAH
NDLVDKVQPGDRVNVTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHYRKTDKRLHGLDEEAEQKLFSEKRVELLK
ELSRKPDYERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHGTGRGKFRAEINILLCGDPGTSKSQLLYVYN
LVPRGQYTSKGSSAVGLTAYVMKDPETRQLVLQTGALVLSDNIGCCIDEFDKMNESTRSVLHEVMEQQTLSIAK
AGIICQLNARTSVLAAANPIESQWNPKKTTIENIQLPHTLLSRFDLIFLLLDPODEAYDRRLAHLVALYYQSEE
QAEELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESRLRLAEAHAKVRLS
NKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLFE
DIRQSDIAITKDMFEEALRALADDDFLTVTGKTVRL

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FIGURE 2546

CGCGTCGGGCTGCAGGAGAAGATGGCGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTTGTTGGAAGAA
CTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTAGCTGGGGCCTTGAAGATGATGAAGATATGACACTT
ACAAGGTGGACAGGCATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCTGAAAGTAA
TGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGATTTGTAACAAAAATTAATATGAACGGAATAAATAAT
TCCAGTGGGATGGTGGATGCCCGGAGCATACCAGTGTAGCAAAATGGCAAAATTCATATAGCATTAAAGTTGTA
CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATATGAAGCTTCCACAGCCACCAGAAGGACAAACATAC
AACAATTAATTTTAGTGGATCTCAAACCTTGTCTTAAATCAACAACCTTCTACTCATGTTAATGTCTTGATTAAAT
ATCACAATGCAAAATACACATTAAAGTAAAAGAATTCCAGCTGGTAAACATGACCTGGACATTTGTAAGAATATAT
TTAATATATGTACACCCATTATGTTTTCAGGTAACAGGAGGAAAAATGCAGCACAATTTTTTTCTCTTGAAAGG
CACTGTCAATTTAAACATAAACCTGGAGTACTCGAAATAGAATTCAGGTTTACAAGATGAAAGCGTGTGGAGAAGT
GTCAGATGGCAGTGGAGCATGTGTGTTTCTAAAAAGTAAAAATCTCAAGAAAACAGAAATGGCATGCTTTACCC
ATCTTACTTAGTGAAAGAGAGCTGCAGTTGAAATTGTTTAAAAAGTAGCAGGTACAATGAATATTGTCACAGATG
TGTTAATTTTTGAAGCAATGTGGGTGCTGACTACTAGTAGTATCAAAAATATGTTTCAGGATTGTTTTGATACCTG
TATTTATAATAAAAAATGTTGGGGGGAGTTGATGAATTCCTGTAAAAGCTGTTCTTGTTGTGTACATGTAACAG
ACATGGTAAATATTTGTTTACAGTCTTTGTTTAAACAAACCATGCATTTAAGTTTAAAGTGAAGTCAACAAAAAGGA
AATAGGTGTATGGATATGTGATTTTGAGATTAAAGTTAGTCTTAAATGTAAATAAAATGTGAAACGTGTCCTCA
GAGACTGTGCCATTTCTATTATGTTGATGTATATGTACAGTACCTTGCCAGGGAAGCAAAAATTGGAATTATTGT
AGCTTTTCATGTATACACACTTTTATTTACCCATTATTTGTGTACTTCTTGTAATTATAATTTGCAGACTATTTT
AGAAAAAGAAATTATCTAGTTTAAATTTCTTTTGGACAAGGAGTCCTAGGTATTATATTTTGAGTTTGATTTTAC
CAGAAATAATAATATTTAAAAAGATCTTTCATTCTGGCAGTTCTTTTAGGATTATAGGTTGCAAATTATCCAAAT
ATATATCCCATTTTTTAAAGCATAAAAA

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FIGURE 2547

MAVSTGVKVPNFRLLLEELEGQKGVGDGTVSWGLEDDMTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPE
APPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN

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FIGURE 2548

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA
GGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT
TTCATCCTTTCTCGGGCACCAAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGTGTCAGCTCT
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA
TCAAGAAATAAGGAATACAGACATGAAATACAAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA
AAATCCAAATTTAAGGAAAAATGTCTCTGTGGGAATATTCCTCCTGACTTATTTGCTAGAATGACAGCAGAGGA
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAACTTGACCAAAGAAGCCATCAGAGAGCATCAGATGGCCAA
GACTGGTGGGACCCAGACTGACTTGTTTACATGTGGCAATGTAAAAAGAAGAATTGCACTTACACACAGGTACA
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGGAAGTTCTGTG
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAAGTAGCTTTAAAGTAGGCCAAGCA
ACTAGTTTTCTGCAAAATCAAATTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA
AATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTTATGGTACCTGTTTCAAAACATATTTTT
TCTGTTTTTATAAGTAAGTTGATTAATTAACCTTGGCAATATTCTTCTTTCTTAAAGGAAAAATATACCTT
AACTTTTTTTCTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAATACATAAATGAA
AATACATTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA
CCAAATATGGTGTGATTCAAATAATACTTGACCAGCTTATCTAAATGTACATAATTTGAGGTAGCTTATGAA
TTTGATTTTAATTATTATGTTTACAAGCTTGGAAATATTAGATATTATTTTGCATCTGTAACCTAACCGTGATCATC
ATTTCTTGTAATTTCTTGACATGTATATTACTTGTCTTAATAGATTTTGGAAACAAGACTTTATTGAGATCA
GTTTGTTTTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACACTGTTGTAGTT
TAGAAGGCTTTTCATAAATCCCCCTCATAGGCAAAGATGAAACTTCCCACTATTTTTTCCCCTCTTAGGAAGAC
ATACTGGAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTCTG
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC
TGATAGAAAATAATTTGTCCCAAGTCTTATTGCTGACTTTTTCTGTCATGAGTGAGATTGTTGAACAACTGA
ATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTAAAGTGTGTACCA
TTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA
AAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC
ATGCTTTGCACTCTCCTTTGCTCCCTTTTCCAATTTCTTATTGCATATCATTGTTGTAATACAGAAAGCAGC
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGCAGTTCATAGTTGAAGA
TTTTGTTTTATTCAAAAACAAAGTACATTTTGAATAATGTTTCAGAATAAAATAATCTCACTTTTAAGTGAT
CCATTTTAAAATTTGTAATTCAATAAAGTTTTTTTTGTTGTTAAACAT

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FIGURE 2549

MLAAALRTGDDYIAIGADEEELGSQIEEDIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFA
RMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGN
RWKFC

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FIGURE 2550

CGGCGGGCGAGGGGCAGGGCAGGGCGGACCCTGGACGCGCGGGCGCGCGGAAAGGTAGCGCGGGGCCGCGTTGG
CGCGCACGCGCCTGAGCGTGCGCCCGGTGGGGCCGGCCGGGACTCGCCGCTCGCACGCCCTTGGGCCGCGGCCGG
GCGCCCGCTCTTCCTTCCGCTTGCCTGTGAGCTGAGGCGGTGATGTCGGGCAATAACATGTCAACCCCGCTGC
CCGCCATCGTGCCCGCCGCGCCGAAGGCCACCGCTGCGGTGATTTTCTGCTGCGATTGGGAGATACTGGGCACG
GATGGGCAGAAGCCTTTGCAGGTATCAGAAGTTCACATATCAAAATATATCTGCCCGCATGCGCCTGTTAGGCCTG
TTACATTAAATATGAACGTGGCTATGCCTTCATGGTTTTGATATTATTGGGCTTTCACCAGATTACAGGAGGATG
AATCTGGGATTAAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTTCTTA
ACAGAATTATTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAAAC
TGGCAGGTGTCACCTGCACTCAGTTGCTGGCTTCCACTTCGGGCTTCCCTTCCACAGGGTCTATCGGTGGTGCTA
ATAGAGATAATTTCTATTCTCCAGTGCCACGGGGATTGTGACCTTTGGTTCCCTTGATGTTTGGTTCTCTTACGG
TGGAAAACTAAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAAACTATGAAGGTATGATGCACAGTTTCGT
GTCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGATTGACGTCACTAAGAGG
CCTTGTGTAGAAGTACACCAGCATCATTGTAGTAGAGTGTAACCTTTTCCCATGCCAGTCTTCAAATTTCTAA
TGTTTTGCAGTGTTAAATGTTTTGCAATACATGCCAATAACACAGATCAAATAATATCTCCTCATGAGAAAT
TATGATCTTTTAAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCA
GGTAGCTTCTTTTTTCTCAAATGTAATTCAGCAAAATAATACAGTACTGCCACCAGATTTTTTATTACATCATTT
GAAATTAGCAGTATGCTTAATGAAATTTGTTTCAGGTATAATGAGCAGTTAAGATATAAACAATTTATGCATG
CTGTGACTTAGTCTATGGATTTATTCCAAATTTGCTTAGTCACCATGCAGTGTCTGTATTTTTATATATGTGTTT
ATATATACATAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCT
GTTTATTGTCAAGAAAAAGTAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTTATTT
CCCTGATATTATTTCTATTTAATACTCTTTTCTCAAGAAAAAAGTTTGTTTTTTCTTTATTGTCCTT
CATAGCAGGCCAAGTATTGCCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAATTTGACATTCTGGGT
ACAGATATAAGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAACTTCATGCACTACTTATT
TCGAATTACTGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATTCTGT
GGTTTCATTTTCTGTAAACAACGAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACT
GATCTTAAAACTAACTTCTAAGATGATTTCTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCA
ACTACTGTAGAAGATGAGGAATCTATTGTAATTTTTTGCTTTATTTTCATCTGCCAGTGGACTTATTGAAATTT
TCACCTTAGTCAAATTATTTTTGTATTAGTTTTGATGCAGACATAAAATAGCAATCATTTTAAATTGTCAA
ATTTCCAGATTACTGGTAAAAATTTTGAAGCAAACTTATGGGTAATAAAGGCTAGTCAGAACCCTATACCAT
AAAGTGTAGTTACCATACAGATTAATATGTAGCAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTCT
GCTGTATCCAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAATAAT
TTAGTAATGGACTATACAGGATGTTAATAATGAAGCCATATGTTTATGCTGGATTTAAAAATTTTAAACAATCA
TTTACTATGTCATTTTTCTTTACCTTGAAGAACATAAACTGTTATTTCACTTCTACAAATCAGCAAGATATTATT
TATGGCAAGAAATATTCCATTGAAATATTGTGCTGTAACATGGGAAAGTGTAATGTTTTTCATGGTTTCTATCA
ATGTGAAATAAAATTTAATTCTGAAAA

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FIGURE 2551

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIKYICPHAPVRPVTLMNVAMPSWFDI
IGLSPDSQEDESGIKQAAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTQQKLAGVTALSCWLPLRA
SFPQGPIGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQEMMDVKQFIDKL
LPPID

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FIGURE 2552

CTTTCCTTTTGAGGAAGACGCGGTCGTAAGGGCTGAGGATTTTGGTCCGCACGCTCCTGCTCCTGACTCACCGC
TGTTTCGCTCTCGCCGAGGAACAAGTCGGTCAGGAAGCCCGCGCGCAACAGCCATGGCCTTTTAAGGATACCGGAAA
AACACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAACGTAAAAATCCTTGGA
AAAGGTGTGTGCTGACTTGATAAGAGGCGCAAAAGAAAAGAATCTCAAAGTGAAAGGACCAGTTCGAATGCCTAC
CAAGACTTTGAGAATCACTACAAGAAAACTCCTTGTTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAG
AATTCACAAGCGACTCATTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCC
AGGAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATGACCAGTTGTTAAAA
AAAAAAAAAAAAA

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FIGURE 2553

MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKGPVRMPTKTLRITTRKTPCGEGSK
TWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA

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FIGURE 2554

ATGATGAAGGGAACGTCATCATTGGAAAGCATTGCAATAAGACGTACACGTTATGCCACCACTGTGGCTCTAAG
GCCTACCACCTTCAGAAGTCGACCTATGGCAAATGTGGCTACACTGCCAAGCGCAAGAGAAAAGTATAACTGGAGT
ACCAAGGCTAAAAGACGAAATACCACCAGAACTGGTCAAATGAGGCACCTAAAAATTGTATACCATAGATTCAGG
CATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGTTGCAGCATCCAGTTCATCTTAA

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FIGURE 2555

MMKGTSSF¹GKHCNKTYTLCHHCGSKAYHLQKSTYGKCGYTAKRKRKYNWSTKAKRRNTT²RTGQMRHLKIVYHRFR
HGFREGTTPKPKRAAVAASSS

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FIGURE 2556

CCCTGGTGTGATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTAC
CTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTT
TTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCT
TTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAA
GGCAGCCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAA
ACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCAATATTAGTGGACAGCACTTAGTAGCT
GTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGATGATGAAGATGATGATGATGATGATTTTAAATGAT
GAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAAGATACTCCAGCCAAAAATGCACAAAAGTCAAAT
CAGAATGGAAAAGACTCAAAACCATCAACACCAAGATCAAAAGGACAAGAATCTTTCAAAAAACAGGAAAAAAAC
TCCTAAACACCAAAAGGACCTAGTTCTGTAAAAGACAT

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FIGURE 2557

GATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCCTTCTCTCCTACCTAAGTGCG
TGCTGCCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGT
GAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACG
GTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCCA
ATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCA
CCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAA
GATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGA
GGTAGTAGCAAGCTTCCACAGAAAAAGTAAAACTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGAT
GATGATGAAGATGATGATGATGATTTTAAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAA
GATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAAGACTCAAAACCATCAACACCAAGATCAAAA
GGACAAGAATCTTTCAAAAAACAGGAAAAAACTCCTAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAA
AGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAAGCCAAGTTCATCAATTACGTGAA
GAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAG
TTTAAACAATTTGTTAAAAATTTTCCGTCTTATTTTCAATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAA
TGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAA
ATGCCTGTTTAGTTTTTAAAGATGGAATCCACCCTTTGCTTGGTTTTAAGTATGTATGGAATGTTATGATAGGA
CACAGTAGTAGCGGTGGTCAGACATGGAATCGTGGGAGACAAAAATATACCTGTGAAATAAACTCAGTATTT
TAAT

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FIGURE 2558

GGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGAT
GGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCA
CTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA
TGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCAATTAAAGTAACACTGGCAACTTTGAA
AATGTCTGTACAGCCAACGGTTTTCCCTTGGGGGCTTTGAAACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGG
TTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGA
GGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGAGGTAGTAGCAAGCTTCCACAGAAAAA
AGTAAAACTTGCTGCTGATGAAGATGATGATGATGAAGAAGATGATGATGATGAAGATGATGATGATGATT
TAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCTTCAAAAAACAGGAAAAAACTC
CTAAAAACACAAAAGGACCTAGTTCTGTAAAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTT
CTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTC
AAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAGTTTAAACAATTGTTAAAAATTTCCGTCTTATTT
CATTCTGTAAACAGTTGATATCTGGCTGTCCTTTTTATAATGCAGAGTGAGAACTTCCCTACCGTGTGTTGATAA
ATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCC
TTTGCTTG

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FIGURE 2559

GCTCCTTCTAGGATCTCCGCCTGGTTTCGGCCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGATC
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTGCC
CACATCAGCTCCTCGAGCTTCTCCTGAGTGGGCAGCAGCAGCTTTTCGGGGTGGCCTGGGAGGCGGGCTATAGTGGG
GCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCTGGAGGTGGAC
CCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACA
GACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATG
GCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT
GAGATCAATAAGCATACAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTACGAAAAGGAG
ATCCGGGAGCTGCAGTCCAGATCTCGGACACATCTGTGGTGTCTCCATGGACAACAGCCGCTCCCTGGACATG
GACAGCATCATTGTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAAGACGGGGCTGAGGCTGAGAGCATG
TACCAGATCAAGTATGAGGAGCTGCAGAGTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAG
ATCTCTGAGATGAACTGGAACATCAGCCAGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGCTG
GAGGCTGCCCTGCAGCGGGCCAAGCAGGACATGGCACGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCAAAGAGAGCCGGCTGAAGTCTGGGATG
CAGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACA
AGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCACT
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTG
CCCAAGTGAACAGCTGTGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGAGAAGGAGGCCAC
TATTAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCCACCTGGGGAGTTTAC
IACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTGGTCCAAAATAAAAC
CTCAGCTAGCTCTGCCAA

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FIGURE 2560

GAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCG
CAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCC
AGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGC
AGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGT
TCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGC
TTGGCAACATGCAGAGGCTGGTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATG
CAGGTGGTCTGAGCTCGGCCCTATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCT
CTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGTTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTG
ATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTGCCCCAAGTGAACAGCTG

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FIGURE 2561

CTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGC
CCCCTTGTCCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCATACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
GTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTC
AGGCAGCTGTACGAAAAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCATTGCTGAGGTCAAGGCAC
AGTACGAGGATATTGCCAACCAAAGACGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGA
GTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAGATCTCTGAGATGAACTGGAACATCAGCC
AGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGC
GTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCTGCCCTGCAGCGGGCCAAGCAGG
ACATGGCACGGCAGCTGCGTGAG

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FIGURE 2562

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGTG
CAGCCTATTTCGCTGCACTAACTGTGCCCCGATGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGAGCAGTCAGGGACATTTCTGAAGCGAGCATCTTTGATGCCTATTTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCTGCAAG
GACCGAACACCCCCACCCAATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATTAAATGGAACTGTACTTA

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FIGURE 2563

AGGCGGGGGCGGTGCCATGACGCGCCTCGGGGGCGGTCTCGGGCGCGCACCGCTCTCTTACACTCGGGCCTCAG
AAGTCCGTGCCAGTGACCGGAGGCGGGCGGGCGAGCGGTTCCCTTGTGGGCTAGAAGAATCCTGCAAAAATGTCT
CTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACCTGCTTTTTCTGCAAAACCTGCC
AATCCAGCAATTTTGTGAGAAGCTTCTGCTCCTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAG
CTCTCTCAATACATGGGGCTGAGTTTAAATGAAGAAGAAATACGTGCAAATGTGGCCGTGGTTTTCTGGTGCACCA
CTTCAGGGGCAGTTGGTAGCAAGACCTTCCAGTATAAACTATATGGTGGCTCCTGTAACCTGGTAATGATGTTGGA
ATTCGTAGAGCAGAAATTAAGCAAGGGATTCTGTAAGTCAATTTTGTGTAAGGATCAAGATGGAAAAATTGGACTC
AGGCTTAAATCAATAGATAATGGTATATTTGTTAGCTAGTCCAGGCTAATTCTCCAGCCTCATTGGTTGGTCTG
AGATTTGGGGACCAAGTACTTCAGATCAATGGTGAAGAACTGTGCAGGATGGAGCTCTGATAAAGCGCACAAGGTG
CTCAAACAGGCTTTTGGAGAGAAGATTACCATGACCATTCTGTGACAGGCCCTTTGAACGGACGATTACCATGCAT
AAGGATAGCACTGGACATGTTGGTTTTATCTTTAAAAATGGAAAAATAACATCCATAGTGAAAGATAGCTCTGCA
GCCAGAAATGGTCTTCTCACGGAACATAACATCTGTGAAATCAATGGACAGAATGTCATTGGATTGAAGGACTCT
CAAATTGCAGACATACTGTCAACATCTGGGACTGTAGTTACTATTACAATCATGCCTGCTTTTTATCTTTGAACAT
ATTATTAAGCGGATGGCACCAGCATTATGAAAAGCCTAATGGACCACACCATTCTGAGGTTTAAAAATTCACGG
CACCATGGAAATGTAGCTGAACGTCTCCAGTTTCCTTCTTTGGCAACTTCTGTATTATGCACGTGAAGCCTTCCC
GGAGCCAGCGAGCATATGCTGCATGAGGACCTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGA
TACCTTGTTCAGATTTCAAAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAACTTTCAAGAGATTTACTG
ACTTTCCTAGAAATAGTTTCTCTACTGGAACCTGATGCTTTTATAAGCCATTGTGATTAGGATGACTGTTACAGG
CTTAGCTTTGTGTGAAAACAGTCACCTTCTCCTAGGTAATGAGTAGTGCTGTTTCATATTACTTTAGTTCTATA
GCATACTTGCACTCTTTAACATGCTATCATAGTACATTTAGAATGATTGCCTTTGATTTTTTTTTTAAATCTGTG
TGTGTGTGTGTAATGCCAATTAAGAACACTGGTTTCATTCCATGTAAGCATTAAACAGTGTATGTAGGTTTCA
AGAGATTGTGATGATTCTTAAATTTTAACTACCTTCACTTAATATGCTTGAAGTGTGCGCTTAACTATGTTAAGC
ATCTAGACTAAAAGCCAAAATATAATTATTGCTGCCCTTCTAAAAACCCAAAATGTAGTTCTCTATTAACCTGAA
ATGTACACTAGCCCAGAACAGTTTAATGGTACTTACTGAGCTATAGCATAGCTGCTTAGTTGTTTTTGAGATTTT
TTAGTCAACACATAATGGAACTTCTTTCTTCTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATG
TGATGTAAAAGTTATTACACTAAACAGGATAAACTTTTGACTCCCTTTTGTTCATTTGTGGATTAAAGTGGTATA
ATACTTAATTTTGGCATTGACTCTTAAGATTATGTAACCTAGCTACTTTGGGATGGTCTTAGAATAATTTTCTG
ATAACTTGTTCCTTTTCTGACTCCTCCTTGCAAACAAAATGATAGTTGACACTTTATCCTGATTTTTTCTTCT
TTTTGGTTTTATGTCTATTCTAATTAATATGTATAAATAAAGTTACATTTTAGTCTGTC

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FIGURE 2564

TGCTGCCTACAGCGTCTGCTCCACCCCTGCTGCCCGCTGGAGCCCTAGTGGCTCCCTCGCTTGGCAACAACACAA
GTCTCATGGCCGAGCAGCTGCAGCTGCAGCAGTGGCAGCAGCAGGCGGACCTCCAGTCTCTACTGCCAGACCA
ACCCCTTCTCAGCCTGTCGGGAGCAGACGGCAGTGGCGGTGGCCCCAAAGGAGGGACCGTGACAAAGGAGCCT
CAGCCAACCAGGAAAAAGGCTAAATCCACCCCTTACCCCTCCTGACCCCCCAAGTGGAGGGAACAGATCCTGGCCT
GAGGGGTCTTAGCCTGGAGCAGGCGCTGCGCCAGACCCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTC
AGGGAGTGTGGAGAGCTCCTGGTGTCAAGGACTGAGACTGAGAGGGGAGCCCCCTCCATCTGCCCCCTTCCCTT
TCTGTACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCACCTAGGAGGTCCATCCCCAGCAA
TGTTTTGGAGGTCCCCCAGAGAGCACAGTGGGCCATGGAAGAAGTAGGGGTTGGTTGGACCTGTACATGAAA
TGGATCAGCACTTGAATGGGGAGAAGTGGAGGGAGAGGCCCTGGGCCTGTCCCTGCGGGGAAATCTTTTATGGAA
GAAGGGCTGGACCACTTTACCTGCAGTTTCTTCCCAGCTCAGGCAGATGGCAGAAGGGACCCCTTGGACTTTTT
CTCGCCATCCCTCCCCCAGCGCAGGGGCACAAGCTGAGCTTGTAAAAGCCCACAGATGTTGGGGGCTGGAGAAG
GGCAGGAGAGCATCACACTCAGCCCCAGCCTCCTCAACCTCTTGGGGCCCTGTGATGGGGAGGAGACGGCAGGT
GCGGGGAGGCTCCGGCCTTCTTGGTGCCCCGCCCTTTGTTGCACTATTGGACTTAGGAGTGCCGAGGGTGGGG
AGATGGAGCTGCCTGACTCAGTGTGTGAGTGTGTGTGCGTGCATGTGTGTGTGTGTGTGTGTATGTGTCTGTC
TGCTGTCTCTCTCCTCCTGGACCCAGGGCAGCCAAGGGCAGGGATAGGTGCAGTGGTCAGATGAAGCAGTGCCA
GAGAGGGGACCTCCCAGCTCTTATTTGCACCCTCCCCACCTCACCAACTTTGGTCCCTCTCTGGGGGCATGAATG
GTTAACAAACACCAGAGCAGTACTCCAATATTGGAGAGTCACTGGGGGCACAGGGCTTTGAATCAGGGTAGTATC
CTGCCTTCCCTCCCTGACCCACATGGTCTCAGGGCCCCCTTAGGGCCCCCTACCCCACTGATAGCTTCTCTCT
TCTCTGGCACAAAGGGGAGCCCCAGGGCTTGGGGGAGGGCGTAAGGTGGGGGAAATGCCACAGCTTTTAGCAAAA
GCCTCCCTCCCAGAAATAGCCAGCTTGGCTCCTGCACCCACCCCCACCAACCAGGGGAGCCACTAAGCTGACTA
ACAAGTGTCCCTCACCCACCAGCTTATTTCCCCAGTGTAGAGTGGGCAATTCTCACCTTCAAAGAGTCCCCACCT
GCCAGGCTTTTGGCACAGAGGCTGAGTTGGACAGTCAGGAGAGAGGCGAGAGGCAAGGCGAAGCCGATGTCCCTG
TTTCAGTTGCACTGGGGTTGGAGCCAGGGTAGGGTTAGGGTTTTCCAGCTTCCCCAGGCTCCGGCCTTGTCAGTCTCTTT
GCAGTGTGGATTTTTCTGTGTGTTTTCTGTTTGGGTTTTTGTGTTGGGTATTTTTTTTTTTTTTAATAAAGAAA
AGAAGATGTGTATATTTTTTGGCAACGAC

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FIGURE 2565

CAAGAGTCTAGGTAAGAGTTTGTTCCTGGTGGTGGGAGGGTCAAGGCCACACCCGGAAACCTAGCGAGGTAAAG
TTGCGTCTTGGTTGTAGAGACGACAACCTTCTCCGCTTCCTCGGCGATGGCGGCGTCCGGGAGCGGTATGGCCCAG
AAAACCTGGGAACCTGGCCAACAACATGCAGGAAGCTCAGAGTATCGATGAAATCTACAAATACGACAAGAAACAG
CAGCAAGAAATCCTGGCGGCGAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTG
GCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTG
GATGGTGAAACCATGATCATTATGGACAGTTTGTCTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAG
GCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCTTGAAAATGCAATCGGG
TGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAG
TTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCC
TTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAA
ATAGAAGATTTTGGTGTAAGTACGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGC
AAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGAC
TATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCAGCTGGGACGAGGGAGTTTC
ATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAACTTGCCAAAGCTAAGAGACAGCTGTAAACT
ACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTTAATCAAATTAACATCTCTTAA

ACAGTCTCTGAGAAGTACTTTACCTGAAAGACAGTATGAGAAAAATATTCAAGTAACACTTTAAACAGTTACC
CAAAATCTGATTAGTAAGTATAAGGTGCTCTGAAGTGCTCTAAATATTAATATCCTGTAATAAAGCTCTTTAAAT
GA

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FIGURE 2566

MAASGSGMAQKTWELANNMQEASIDEIYKYDKKQQQEILANLGTKDHHYFKYCKISALALLKMMVMHARSGGNL
EVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGI
DVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALE
VSYFKSSLDRKLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL
AKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS

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FIGURE 2567

GGCACGAGGGGGAGGCGGGCGGAGTCGGTGAGCAGCTGGGAAGAGCAGAACCAGGGGCGGAGCACCTGCAGGCGC
GGGCGGCGGGCCCCACCATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCTCT
GCAGAATCACGCGGACATCGTCTCTGTGTGGCGATGGTCTTCTCTGCTGGGGCTCATGTTTGAGATAACGGCAAA
AGCTTCTATCATTTTTTGTACTCTTCAGTACAATGTCACCCTCCCAGCAACAGAAGAACAAGCTACTGAATCAGT
GTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGGCGATAATTATTCATGC
CGTAATTCAGAGTATATGTTGGATAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAA
TGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACATTCTTCTCATCTCTGAAAACATA
CATCTCAGACCCCACTATCTTATGGAGGGCTTATCCCATTAACCTGATGACATTTCAAATGAAGTTTTCTACAT
ATCACAGCTGGCTTACTGGCTTCATGCTTTTTCTGAACCTCTACTCCAGAAAACCAAAAAGAAGATATTCCTCG
TCAGCTTGTCTACATTGGTCTTTACCTCTTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACT
TGTTCTTCTGGTGCTACATTATTTGTTGAATTTCTTTCCACATTTCCCGCTGTTTTATTTTAGCAATGAAAA
GTATCAGAAAGGATTTTCTGTGTGGGCAGTTCTTTTGTGTTTGGGAAGACTTCTGACTTTAATTCTTTCAGTACT
GACTGTTGGTTTTGGCCTTGCAAGAGCAGAAAATCAGAAGCTGGATTCAGTACTGGAAACTTCAATGTGTTAGC
TGTTAGAATCGCTGTTCTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCT
TCGAAGGTGGAGGGAACATTCIGCTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAATAAAGGCAGATC
TTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTCAAATGTAGCAGACTCTCCCCGGAATAAAAA
AGAGAAATCTTCATTAATGAATTATAAACTAATTGATTAATGTCCCCAAAGAAATCTGCTTCTACTATATCTTTC
AGCATTAGAGATTTTTCTGTCTTGAAAATACAGICTGTGCTCTTTGATTTTTGCTATTGTACGGTTTCATGCAT
TTTTTTAAAGGGCATTGAGGGGAGGATTATTGCTATGAATGAAAAAATATTTTAGCTTAGACTAAGTACCTG
CCTTCAAATAGTTTAGGGACCACCACCATATTTTATTTGTTTTATTTTGAACATTTTCTAATGATTTGGA
GAGAAAATATTTACAAAAATCCACATATCAGTGATACAATTTCTTGCTGTCACCAATTTTTTATAATAGCAGA
GTGGCCTGTTCTAAGAAGGCCATATTTTTAAGTTATCTTTCAGGGTAACATGGAATACTATAAAGTTGGATGT
CAAACTTTAATATGTTTTTCAGTGTCTCTAATTTTTTGAATTTTTGTAGACTTTACACCTGGAAAAAAGATTT
GTAAATCACCGGAACAATTGTGTGCTTTATTTTATAGGTAGTGGTTATTAGTATTACATCCCCATTTTAAAAAC
AAAAACATAATAATGGTTACAACACGTGGAGTTTTACTAACATACATATTAATCAAAGTATATTCTTAAAGTA
CTTGTAAGTAAATCTTCTTGTCATTTTCAATACTTGTAACCTGGAATCAGAAAAATTTTACTATGAACAG
GAAAATCTGACATATAGCCCTTTTTGATATGTTTATTAATAATGATTCCTAATGGGGCTCATAATAAGTTTAATA
TGCACAGCATCTTAGAAAAGTTTAACTGCAACACTTTTAAACATAATGCCTACTTGATTTATATCTATAAAA
AGACTGACAGGTAATTATATTTGGAAAACATTTAATGCACTAACCTTAAAGAAATTGAAAATTCAGGTGGATAAA
TAGTCTTACAAAAGACAATGTGCTTTATGTTATACCTATAGCTTTGGTCCCATCTTTAATTGAGAAACATTTATC
TGTATAAAACATATTTTTGGATAAATATATATATATATATTTGTATCGCTACAGAAAGGCTCTAAAAAGCATTG
AGGAAAATATTTGGTTCCCTTTTCTATAATCATCTTTAAGATTCTTATAGCTACATTTGGTTTTATTTCATCATAT
TTACAGTATATATATTGTTCTTTTCAGTGTTACATCTTGTTCCCCATTTCTCACTTGTTGTCACCAGCTGTTTGT
GCCATTTTTAGTGTAAGGTTGCAGACCTATTAGATCTGCAGTTTAAAGTTGCCATGCTGCTAGGAAATTGTCCTT
TTTCTTTCTAGCTGTTAACCTACTTCTGGAAAAAGTAGTAGCTCTCTGTAGCATTATGGAGTTTCAGTGGAACC
AAATTTTTGCCATTAAAAACTGGCATTATACTGAACATACATTGAGAAATCAATCAAAATAAAAAATTTTTACTT
TCACAAAAA

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FIGURE 2568

MAIRKKSTKSPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESVSLYYY
GIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSKFNESGQLSAFYLFACVWGTFILISENYISDPT
ILWRAYPHNLMTFQMKFFYISQLAYWLHAPPELYFQKTKKEDIPRQLVYIGLYLFHIAGAYLLNLNHLGLVLLVL
HYFVEFLFHSIRLFYFSNEKYQKGFSLWAVLFVLGRLLTLILSVLTVGFGGLARAENQKLDFSTGNFNVLAIRIAV
LASICVTQAFMMWKFINFQLRRWREHSAPQAPAVKKKPTVTKGRSSKKGTENGVNGLTTSNVADSPRNKKEKSS

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FIGURE 2569

CCTCTTTTCCGGCTGGAACCAATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCTGCTGTGCCAGAAACCCTT
AAGAAAAAGCGAAGGAATTTGCGAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAGATGTACAGAACTGAA
ATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATC
AGAATCAGAGGTATCAATGGAGTGAGCCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAACTGCTGAGGATTGTAGAGCCATATATTGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTGGTAAATACGGCATCATCTGCATGGAGGATTGATTGATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAAATTCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ATTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGAAAAAAA

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FIGURE 2570

MEGVEEKKKEVPAVPETLKKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMA
RKAGNFYVPAEPKLAFFVIRIRGINGVSPKVRKVLQLLRQRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFEANNFLWPFKLSSPRGGMKKKTT
HFVEGGDAGNREDQINRLIRRMN

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FIGURE 2571

CTCGCGCCAGCAGTTTTTGGCTTTTACCCCCCATCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGACATGGAAACCAGTGTGATTGAAGGTGGATTAAATATCACTCTCACCATCCGACTACTTATGCA
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACC
TATCAACATCTCAGAAGGGAATTGTCTGAGAGAATTATCACTTTTGGTGGACCTGCTAATGCCGTCTTCAAAGG
CTTTGCTATGATCATTGACAAACTGGAAGAGGACATAAGCAGCTCTATGACCAGTAGCACAGCTGCCAGTAGACC
CCCAGTCACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGTTGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCTAGATGGCAGGGGATATGCTACCCAACCTCAACTGAGCAGGCCAT
CACTATTGCTGGCATCCCACAATCCATCATTGAGTGTGTCAAACAGATCTGTGTGGTCATGTTGGAGTCCCCCCC
GAAGGGCGTGACCATCCCGTACCAGCTCAAGCCTTCCAGCTCTCCGGTCATCTTTGCAGGCGGTCAGGCCTATAC
CCTTCAAGGACAGTTTGCCATTCCACAGCCAGATTTGACCATGCTGCACCAGTTGGCAATGCAACAGTCTCATT
TCCCATGACGCATGGCAACACTGGATTTCAGTGCAGGTTTGGATACATCTGCTCAGACTACTTCTCATGAACCTAC
CATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATAAATGAGATCCGTCAGATGTCTGG
GGCACAGATCAAAATTGCGAACCAGTGGAAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAG
CATTAGCCTGGCTCAATATCTAATCAATGTCAGGCTTTCCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAA
TGCAGATTTATCCACAATCCCTTTCTGCTGTTTACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG
CGATTTTCAAGTTTTAAATAGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTACTTA
AAGTGTTTTAATTCCTTT

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FIGURE 2572

CCCGGCCGGCCGCCCATAGCCAGCCGTCGGTCACCTCTTCACCGCCCCCTCAGACCGCCCCAAGGTCCCCCGCC
GCCGCTCCAGCGCCGCCGCTGCAGCCGCCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCG
CCAGGACTACAACCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTA
CCTGTCCATGTCTTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCT
CATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGAT
ATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAAT
GTGAATCAGTCACTACTGGAAGTGTACAACTGGCCACTGACAAAAATGACCCCATTTGTGTGACTTCATTGAG
ACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCACAAGATGGGA
GCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGTC
TCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCGTGACGTTAGGGTTTCCTT
TACCTTTTCTATAAGTTGTACCAAAACATCCACTTAAGTTCTTTGATTTGTACCATTCTTCAAATAAAGAAATT
TGGTACCAAAATAATTAATAAATAAAAAATTAAAAAAA

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FIGURE 2573

MKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALYLEKNVNQSLLELYKLATDKNDPHLCDFIETHYLNEQVKA
IKELSDHVTNLRKMGAPESGSAEYLFDKHTLGSDNES

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FIGURE 2574

CCGCCGCTGCAGCCGCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCGCCAGGACTACAA
CCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTACCTGTCCATGTC
TTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTCTTTACCAATCTCATGAGGAGAGG
GAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCA
GACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTGGAAAAAATGTGAATCAGTCA
CTACTGGAAGTGTACAACTGGCCACTGACATGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCGC
AAGATGGGAGCGCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAA
AGCTAAGTCTCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCTTGGTCACCAAGGCAGTGCGTGACGTTAG
GGTTTCCTTTACCTTTTCTATAAGTTGTACC

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FIGURE 2575

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCCGCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTCTTGTACCCCTGGGAGAGAAGTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG
ACTGCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATATAAAATTCCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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FIGURE 2576

MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTTFSC TLGEKFEE
TTADGRKTQTVCNFTD GALVQH QEWDGKESTITRKLKDGLVVECVMNNVTCTRIYEKVE

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FIGURE 2577

GCTACCTACAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCC
GGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTTAGGTGGC
ACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGTATCTACATCATAAATCTGAAG
AGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTGCCATTGAAAACCCCTGCTGATGTCAGTGTATA
TCATCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCTGC
TTCACCTCCTGGAACTTTCACTAACCAGATCCAGGCAGCCTTCCAGGAGCCACGACTTCTTGTTGGTTACTGACCCC
AGGGCTGACCACCAGCCTTTCACGGAGGCATCTTATGTTAACCTACCTACCATGCTCTGTGTAACACAGATTCT
CCTCTGCGCTATGTGCACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATG
CTGGCTTGGGAAGTTCTGTGCATGCGTGGCACCATTTCCTGTAACACCCGTGGGAGGTCATGCCTGATTTCTGC
TTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGCCTGCTGCTGAAAAGGCTGTGACCAAGGAGGAATTT
CAGGGTGAAAGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTG
CAGGTGCCCTCTGTGCCTATTTCAGCAGTTCCTTACTGAAGACTGCAGCGCTCAGCCTGCCACGGAAGACTGGTCT
GCAGCTCCCACTGCCCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCATAGGCT
CTTAAGCAATATGGA AAAATGGTGGATGGA AAATAAACATCAGTTTCT

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FIGURE 2578

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGCFTPGTFTNQIQAAFQEPRLLVVTDPRADHQPFTEASYVNLPTIALCNT
DSPLRYVHIAIPCNNKGAHSVGLMWWMLAWEVLCMRGTISREHPWEVMPDFCFYRDPFEEIEKEEQPAAEKAVTKE
EFQGERTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDCSAQFATEDWSAAPTAAQATEWVGATTEWS

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FIGURE 2579

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAATAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTAGAAATACC
ATACTGTGAATGGCCACAAGTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTGGAAGTGGTTCTGGAACTTTGGTGGTGGTCTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGGCAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATG
GCTATAATGGATTTGGTAATGATGGAAGCAATTTGGAGGTGGTGGAGCTACAAGGATTTTGGCAATTACAACA
ATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCATGGTGGTGGAG
GCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCA
GAAGATTTTAAATTAGGAAACAAAGCTCAGCAGGAGAGGAGAGCCAGAGAAGTAACAGGGAAGCTACAGGTTACAA
CAGATTTGTGAAGTCAAGCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGTTTATAGACAAATA
CTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTT
TGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTGCACCCATGCTGTTGATTGCTAA
ATGTAATAGTCTGATCGTGACACTGAATAAATGCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAA
GCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTT
ATATACAACCTGCTTGGGTGAAGAAGCCATTGCTTCGGAAACCTTGGTGTAGTTGAAGTATAGTTACTGTTGT
GACCTGAAGTTCACCATTAAAAGGGATTATCCAAGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGT
ACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCA
TCCATTATCGTATGTAATCAATAAACGATTTAATTCTCTTGAA

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FIGURE 2580

MNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHHLRDYFEQYGKIEVIEIMSDRGSGKKR
GFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVTKALSKQEMASASSSQRRSGSGNFGGGRGGGFSGNDNFGHGGN
FSGHGGFGGSHGGGGYGGNGDGYNGFGNDGSNFGGGGSYKDFGNYNQSSNFGPMKGGNFGGRSSGPHGGGGQYF
AKPRNQGGYGGSSSSSYGSGRRF

2802/6881
FIGURE 2581

AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTCAGAAATACCATACTGTGAATGGCCACAACGTGAAGTTACAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTCATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGG
CAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTGG
AGGTGGTGGAAGCTACAAGGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAAGCTCTGGCCCCATGGTGGTGGAGGCCAGTACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 2582

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCCTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCCAACTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTGGAGGTG
GTGGAAGCTACAAGGATTTGGCAATTACAACAATCAGTCTTCAAATTTGGACCCATGAAGGGAGGAAATTTTG
GAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAGGCCAGTACTTTGCAAACCACGAAACCAAGGTGGCTATG

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FIGURE 2583

GGTAGCAGCCATTTAACTGATGTCTTTTGTATGATTGTTTCATCACTTAATAAAGGATGAATTCAGTTAATGGAG
AATCATCCTCATTTCACCAACTGATAATGCGTCTGTACGGGTACTCCAGTAGTGTCTGAAGAAAATGCCTTGT
CTCCAAATTGCACTAGTACTACTGTTGAAGATCTCCAGTTCAAGAAATACTGACTTCCTCAGAAAACAATGAAT
GTATTCCCTTCTACCACTGTCAGAAATTGGAATCTGAAGCTAGAAGTATATTAGAGCCTGACACCTCTAATTCTAGAA
GTAGTTCTGCTTTTGAAGCAGCCAAATCAAGACAGCCAGATGGGTGTATGGATCCTGTACGGCAGCAGTCTGGGA
ATGCCAACACAGAAACCTTGCCATCAGGGTGGGAACAAAGAAAAGATCCTCATGGTAGAACCTATTATGTGGATC
ATAATACTCGAACTACCACATGGGAGAGACCACAACCTTTACCTCCAGGTTGGGAAAGAAGAGTTGATGATCGTA
GAAGAGTTTATTATGTGGATCATAACACCAGAACAACAACGTGGCAGCGGCCTACCATGGAATCTGTCCGAAATT
TTGAACAGTGGCAATCTCAGCGGAACCAATTGCAGGGAGCTATGCAACAGTTTAACCAACGATACCTCTATTCCG
CTTCAATGTTAGCTGCAGAAAATGACCCTTATGGACCTTTGCCACCAGGCTGGGAAAAAAGAGTGGATTCAACAG
ACAGGGTTTACTTTGTGAATCATAACACAAAAACAACCCAGTGGGAAGATCCAAGAACTCAAGGCTTACAGAATG
AAGAACCCCTGCCAGAAGGCTGGGAAATTAGATATACTCGTGAAGGTGTAAGGTACTTTGTTGATCATAACACAA
GAACAACAACATTCAAAGATCCTCGCAATGGGAAGTCATCTGT

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FIGURE 2584

AGAGTCCGCGCCCTGCGTCCGCGACCAGGAGGATCGGACCTTCGCCCTTCGCTGTGCGCGCCGCCGCCGCCGCCGCGG
CCGTCGGGGCTATTAGTGAAAGATGGTGGATCGCTTGGCAAACAGTGAAGCAAATACTAGACGTATAAGTATAGT
GGAAAACTGTTTTGGAGCAGCTGGTCAACCTTTAACTATACCTGGACGAGTTCTTATTGGAGAAGGAGTATTGAC
TAAGTTGTGCAGGAAAAAGCCCAAAGCAAGGCAGTTTTTCTTGTTAATGATATTCTTGATATATGGCAATATTGT
CATCCAGAAGAAAAATATAACAAACAACATATTATCCCCTGGAAAATGTCACIATTGATTCCATCAAAGATGA
GGGAGACTTAAGGAATGGATGGCTAATCAAGACACCAACTAAATCTTTGACAGTTTATGCTGCCACTGCTACGGA
GAAATCAGAATGGATGAATCATATAAATAAATGTGTACTGATTACTCTCCAAAAGTGGGAAGACACCCAGTAA
TGAACATGCTGCTGTCTGGGTTCTGACTCTGAGGCAACTGTATGTATGCGTTGTCAGAAAGCAAATTCACACC
TGTTAATCGTCGCCACCATTGCCGCAAATGTGGTTTTGTTGTCTGTGGGCCCTGCTCTGAAAAGAGATTCTTCT
TCCAGCCAGTCTCTAAGCCTGTGCGGATTTGTGACTTCTGCTATGACCTGCTTTCTGCTGGGGACATGGCCAC
ATGCCAGCCTGCTAGATCAGACTCTTACAGCCAGTCATTGAAGTCTCCTTTAAATGATATGTCTGATGATGATGA
CGATGATGATAGCAGTGACTAAGGACACATTTGGGAGTATTTAATCAGGTGTGGCTATCTGAGAAATCAACTTTG
GGGGAATGTAAAGATTCTGAGCTCTCTCTCTGTTTTGTTCTAGCCATGAATTTGCCTGAGAACTTGTAACCTAT
GTGCTCAATATATTCCATAGAAAGTAGGTCCCCCTGCCCTCTCCCACTCCTCACACTCTTCTACAGGGATAGGC
TTTTGCAAATATATCAGATAAATTTTTGTTTCTTGTTATTTTTTAGGTTATTTTTCTTGAAGGTTGGGAAAAGA
TGTTTGTTTTAACAGGTCATGTACTACGTTGTTGTTTTCATTTCTGTTATAAGTAAACTAAAAGCACAGAATGG
TGGGAAGGGGCTATAATGTGGTTCATTAATAATGTAGCAGCTTTTTCTAACCATCCTGTCTAATGGTTAAGA
CACCAGTAACAAAACACATGATTGGAAATACTTTGGCTTTTTTCATATACCTAGTGGTGCCCTTATCATAATAGC
ACTGTTACATGAAATAAGCCCTACCTTCTTACTTTCTGGTTTGTTGAAAAAATACACTGGTGCTCTTTGAAGTG
ATAAAATGAGTGTTTATGAATGGGTGTAATTAGGAAATACTTCTCATCTGACAGCTACAAATAACTAAGTTTGA
GGTATTTTCACTCTATATGAATAAATATTTTTCCATAAAATAGTTGTGATTATATTTTTGTTTTATATAGGTCCT
AAATTATAATTGTCAAATATATATTTTAAATTAATAAAAGTTGTCATTCTTAGGAATTTGGTTTGAAATTTATCA
GTTATACAGAATTGTCACTACTGCATTAGCTTCTACCTTTAGTAAGACATATTTTTTAGGTATAAATCTTATGCT
TTAACATTATTTCTGGATTGAAAATCTTATAAAACCTTGAAAATAAACAGTCTCTTTTTTACAAAGCCTGTGTT
AGAGCACAGATTTACCTAGGCTTGAAGATTTGGAAGAAATAATATGTAAGAATGGCCTCAAGGCAGACCACTTTA
AGTTTGGCTAGACTTCATATCGTGGAGTATTGTCTATTTTCAGTGTGAACTATCTTGAATTTGCAAATATAGTG
TTATATTTTATAAAGTTTTGTAAAATCCCAAACAATATTTCTATTTTGTAAAACAATTGTATGTATAATCTGTA
TTTGAAATCATTTTGCAATCTATGGAATAGAGTAGCAATTGCTATTTCTAAATTGTGAACCTTAAAGTCAATCTA
GATTTATTTTGAGAAGTAATTGTTCACTCTTTACTTTTGAGGCAGCCATTAGGTTGAAAGTATATATTTATCATA
TAAAACCTTGATGCGTTTTGCACTACTCTTTCCATTTATATGCTGCAAACAACCTACAGTCTTTGAAATATGGAAAA
TCAGCAGTCTAAAGTTTGTTTTAAATCTAAATTTAAAAAATCTTCAAATCTGAATATACCGCAAATGTCATGAG
AAGTTTGATTACAGTAACTTGTGATGGAGGATTCTTTGGTATCTTACTGTTTGGTTAAGGCACTAATTTTACTTAC
CTATTAGATTTTGAAAGTATCTGAGATATACAAATCTCCCTGTAGGAAATGTGAAAGAAAAGCACAAACAACTA
GGGTTTTTTGTTCAATTGCTTGCTTTTATGATTTTTTTGGTTTGTTTAATATCAGGTGGATTTTTGTTTCTAA
GCAATATATACATAAAATCAACCAACATATCTGAAAGGATCATGAAACCTGAGAAATGCTAATGGAGATTTGCT
GGTACATAGGAATCTAGCAAATTCAGGAACCAAGGGGAAATGTTGTGAGATAACATTTACATTGTCAACCTTTAT
TGACTTTGTTTTTACAATAAAAAATATTTTACAACCTT

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FIGURE 2585

MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTKLCRKKPKARQFFLFNDILVYGNIVIQKKKYN
KQHIIPLENVTIDSIDEGDLRNGWLIKTPTKSFAVYAATATEKSEWMNHINKCVIDLLSKSGKTPSNEHAAVWV
PDSEATVCMRCQKAKFTPVNRHHCRKCGFVVCGPCSEKRFLPSQSSKPVRICDFCYDLLSAGDMATCQPARSD
SYSQSLKSPLNDMSDDDDDDSSD

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FIGURE 2586

GGCGGGCTCCAGGCGAGGCGGTCTGACGCTCCTGAAAACTTGC GCGCGCGCTCGCGCCACTGCGCCCGGAGCGATG

AAGATGGTTCGCGCCCTGGACGCGGTTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCATC
CTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGGAT
CAGTATAACTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTCATGGATGATGCCAACATGTGCATTGCCATT
GCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGATC
ATCCCAATTCTTCTGTTACCAGATCTTTGACTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTTATCCA
AACTCCATTACGGAATACATACGGCAACTGCCTCCTAATTTTCCCTACAGAGATGATGTCATGTCAGTGAATCCT
ACCTGTTTGGTCCCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAGGGTTACTTGATTAGCTGTGTT
TGGAACTGCTACCGATACATCAATGGTAGGAACCTCTGATGTCTGCTGTTTATGTTACCAGCAATGACACTACG
GTGCTGCTACCCCGTATGATGATGCCACTGTGAATGGTGTGCTGCCAAGGAGCCACCGCCACCTTACGTGTCTGCC
TAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTATTTC
CTTTTGCCATGAGCCTCTCTGAGCTTGTTTGTGCTGAAATGCTACTTTTAAAATTTAGATGTTAGATTGAAAA
CTGTAGTTTTCAACATATGCTTTGCTGGAACACTGTGATAGATTAACTGTAGAATTCCTCTGTACGATTGGGGA
TATAATGGGCTTCACTAACCTTCCCTAGGCATTGAAACTTCCCCAAATCTGATGGACCTAGAAGTCTGCTTTTG
TACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTGTTCCCTCTCTTTTGAAAATGTAAAAATAAACCAAAAA
TAGACAACTTTTCTTCAGCCATTCCAGCATAGAGAACAAAACCTTATGGAAACAGGAATGTCAATTGTGTAATC
ATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCCACAACATCCTTTATGACTG
AAGTTCAATGACAGTTTGTGTTTGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCACCA
GGCCGTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTTGTGTCCAGGGACATGGGGTGACATGCCTCG
TATGTGTTAGAGGGTGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCTCTTCTCTCTGGATTACATC
CCCACCCAGGGCCCGCTTTTACTAAGTGTCTGCCCCTAGATTGGTTCAAGGAGGTATCCAACCTGACTTTATCAA
GTGGAATTGGGATATATTTGATATACTTCTGCCTAACAAACATGGAAAAGGGTTTTCTTTTCCCTGCAAGCTACAT
CCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAAATGTAAACATTTTCAGAAAAATGAGGATTGCC
TTCCTTGATGCGCTTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTCATATGTTACAAAGTCAG
CAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTTGCAATTAAACAAGGTTTGCCAC

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FIGURE 2587

MKMVAPWTRFYNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIA
IAISLLMILICAMATYGAYKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVN
PTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVS
A

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FIGURE 2588

CCTTTCTCGTTCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGT
GGCCGCAAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAACTCGTTATGAAAAGTGGGAAGTA
CGTCCTGGGGTACAAGCAGACTCTGAAGATGATCAGACAAGGCAAAGCGAAATTGGTCATTCTCGCTAACAACTG
CCCAGCTTTGAGGAAATCTGAAATAGAGTACTATGCTATGTTGGCTAAAACCTGGTGTCCTACTACAGTGGCAA
TAATATTGAACTGGGCACAGCATGCGGAAAATACTACAGAGTGTGCACACTGGCTATCATTGATCCAGGTGACTC
TGACATCATTAGAAGCATGCCAGAACAGACTGGTGAAAAGTAAACCTTTTCACCTACAAAATTCACCTGCAAAC
CTTAAACCTGCAAATTTTCCTTTAATAAAAATTTGCTTGTTTTAAAAACATTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2589

MVAAKKTkKSLESINSRLQLVMKSGKYVLGYKQTLKMIROGKAKLVILANNCPALRKSEIEYYAMLAKTGVHHYS
GNNIELGTACGKYRVCTLAIIDPGDSDIIRSMPEQTGEK

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FIGURE 2590

GCCCACTCCCACCGCCAGCTGGAACCTGCGGACTACGACGTCCTCAAACCTTGCTTCTAGGAGATAAAAAGAA
CATCCAGTCATGGATAAAAATGAGCTGGTTTCAAGAGCCAACTGGCCGAGCAGGCTGAGCGATATGATGACATG
GCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCT
TATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGGGTCGCTCAAGTATTGAACAAAAGACGGAAGGTGCT
GAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTA
CTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAA
GGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGGATTGTGATCAGTCACAACAA
GCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTT
AACTTCTCTGTGTTCTATTATGAGATTCTGAAGTCCCCAGAGAAAGCCTGCTCTCTGCAAAGACAGCTTTTGAT
GAAGCCATTGCTGAAGTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACTGAGA
GACAAGTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAACCG
GCCTTCCAAGTTTGTCTGCCTCATTCTAAAATTACACAGTAGACCATTTGTCTCATGCTGTGCCACAAATA
GTTTTTGTATTACGATTTATGACAGGTTTATGTTACTTCTATTGAAATTTCTATATTTCCCATGTGGTTTTTATG
TTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTCTCTGAGGTGGCCAAATATGGGG
ATGTGGAATTTTATACAAGTTATAAGTGTGGCATAGTACTTTTGGTACATTGTGGCTTCAAAGGGCCAGTG
TAAACTGCTTCCATGTCTAAGCAAAGAAAAGTCCCTACATACTGGTTTGTCTGGCGGGGAATAAAAGGGATCA
TTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAATCAT
ACCCCATGGATACCACATATTAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTACAGCTGCA
GAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTATTT
GTAAAGTTACCTGCTGTAGCTTTCATTATTTTTGCTACACTCATTTTATTTGTATTTAAATGTTTTAGGCAACC
TAAGAACAAATGTAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTACTTTCATGTATATCAAGCAC
AGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGATTTTTGCTTTTGTGATTTTTTTTTTTTTTTTT
GATACTTGCCTAACATGCATGTGCTGTAAAATAGTTAACAGGGAATAAAGTTGAGATGATGGCTAGCTTTGTTT
AATGTCTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACGTGTATTAATTCATGTAAGTGGA
ATAAAAGTTTTATGAATGGACTTTTCAACTACTTCTCTACAGCTTTTCATGTAAATTAGTCTTGGTTCTGAAAC
TTCTCTAAAGGAAATTGTACATTTTTTGAATTTATTCCTTATTCCTCTTGGCAGCTAATGGGCTCTTACCAAG
TTTAAACACAAAATTTATCATAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCCTCTCT
TCCTCCCCACCTGAAAAAATGAGTTCCTATTTTTCTGGGAGAGGGGGGATTGATTAGAAAAAATGTAGTG
TGTTCCATTTAAATTTTGGCATATGGCATTTTTCTAACTTAGGAAGCCACAATGTTCTTGGCCCATCATGACATT
GGGTAGCATTAACTGTAAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGATACTCTTATAGC
CTGCCCTCAATTTTGATCCTTTATCTTTCTATTGTGTCAGGTGCACAAGATTACCTTCCTGTTTTAGCCTTCTGT
CTGTGTCACCAACCATTTCTTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGATCTTTCTGGCTCCACTCAGT
GTCTAAGGCACCTGCTTCCCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CCTTAGTTGATGAGACTGTGTTTATCTCCCTTTAAACCTTACCTATCCTGAATGGTCTGTCATTGTCTGCCTTT
AAAATCCTTCTCTTTCTTCTCTCTATTCTCTAAATAATGAIGGGGCTAAGTTATACCCAAAGCTCACTTTAC
AAAATATTTCTCAGTACTTTGAGAAAAACCAACAAAAATGCCATTTTAAAAAGGTGTATTTTTCTTTTA
GAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTATTGTGCTAGTACACTGTAAATGCTCAA
TAAATATTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCC

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FIGURE 2591

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWRVSSIEQKTEGAEEK
QQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFLKMKGDYYRYLAEVAAGDDKKGIVDQSQQAYQ
EAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNL
TLWTSDTQGDAAEAGEGGEN

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FIGURE 2592

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCAGTGCCTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAAC
ATAGTGGAGGCCGCGCAGCAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTGAGGAGCT
GAGTTCCTAAAGACTGAAGACAGGCTGTTCTCTGGAGAAAATAAAATGGAAATTGTACTT

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FIGURE 2593

CCTTCTCCCCGGCGGTTAGTGCTGAGAGTGCGGAGTGTGTGCTCCGGGCTCGGAACACACATTTATTATTAAAAA
ATCCAAAAAAATCTAAAAAAATCTTTTAAAAAACCCCAAAAAATTTACAAAAATCCGCGTCTCCCCCGCCGG
AGACTTTTATTTTTTTTCTTCTCTTTTATAAAATAACCCGGTGAAGCAGCCGAGACCGACCCGCCGCCCGCGG
CCCCGAGCAGCTCCAAGAAGGAACCAAGAGACCGAGGCCCTCCCGCTGCCCGGACCCGACACCGCCACCCCTCGC
TCCCCGCCGAGCCGGCAGCCAGCGGCAGTGGATCGACCCCGTCTGCGGCCGTTGAGTAGTTTTCAATTCCGG
TTGATTTTGTCCCTCTGCGCTTGCTCCCCGCTCCCCTCCCCCGGCTCCGGCCCCAGCCCCGGCACTCGCTCT
CCTCTCTCAGGAAAGGTCGCGGCTGTGCCCTGCGGGCAGCCGTGCCGAGATGAACCCAGTGCCCCAGCTA
CCCCATGGCCTCGCTCTACGTGGGGGACCTCCACCCGACGTACCGAGGCGATGCTCTACGAGAAGTTCAGCCC
GGCCGGGCCCCATCCTCTCCATCCGGGTCTGCAGGGACATGATACCCGCCGCTCCTTGGGCTACGCGTATGTGAA
CTTCAGCAGCCGGCGGACCGGAGCGTGCTTTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACG
CATCATGTGGTCTCAGCGTGATCCATCACTTCGCAAAAGTGGAGTAGGCAACATATTCATTAAAAATCTGGACAA
ATCCATTGATAATAAAGCACTGTATGATACATTTCTGCTTTTGGTAACATCCTTTTCATGTAAGGTGGTTTGTGA
TGAAAATGGTTCCAAGGGCTACGGATTTGTACACTTTGAGACGCGAGGAAGCAGCTGAAAGAGCTATTGAAAAAT
GAATGGAATGCTCCTAAATGATCGAAAGTATTTGTTGGACGATTAAAGTCTCGTAAAGAACGAGAAGCTGAAC
TGGAGCTAGGGCAAAAGAATTCACCAATGTTTACATCAAGAATTTGGAGAAGACATGGATGATGAGCGCCTTAA
GGATCTCTTTGGGCTGCCTTAAGTGTGAAAGTAATGACTGATGAAAGTGGAAAATCCAAAGGATTTGGATTTGT
AAGCTTTGAAAGGCATGAAGATGCACAGAAAGCTGTGGATGAGATGAACGGAAGGAGCTCAATGGAAAACAAAT
TTATGTTGGTCGAGCTCAGAAAAAGGTGGAACGGCAGACGGAACCTAAGCGCAAATTTGAACAGATGAAACAAGA
TAGGATCACCAGATACCAGGGTGTAAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGCTCTCCG
GAAAGAGTTTTCTCCATTTGGTACAATCACTAGTGCAAAGGTTATGATGGAGGGTGGTCGAGCAAAGGGTTTGG
TTTTGTATGTTTCTCTCCCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAA
GCCATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACCAGTATATGCAGAGAAT
GGCAAGTGTACGAGCTGTTCCCAACCCTGTAATCAACCCCTACCAGCCAGCACCTCCTTCAGGTTACTTCATGGC
AGCTATCCCACAGACTCAGAACCGTGCTGCATACATCTCTCCTAGCCAAGTTGCTCAACTAAGACCAAGTCTCG
CTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCAGCTGCTCCTAGACC
ACCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTCCACGAGTCATGTCAACACAGCGTGTGCTAACACATC
AACACAGACAATGGGTCCACGTCTGCAGCTGCAGCCGCTGCAGCTACTCTGCTGTCCGCACCGTTCCACAGTA
TAAATATGCTGCAGGAGTTTCGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAATGCAACAGCCTGC
TGTTTCATGTACAAGGTCAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCCCTCTCAAGAGCAAAAGCAAAT
GTTGGGTGAACGGCTGTTTCTCTTATTCAAGCCATGCACCCCTACTCTTGCTGGTAAATCACTGGCATGTTGTT
GGAGATTGATAATTCAGAACTTCTTCATATGCTCGAGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGT
AGCTGTACTACAAGCCACCAAGCTAAAGAGGCTGCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACTGT
TTAAAATTTGATCAGGGACCATGAAAAGAACTTTGTGCTTACCAGAAAGAAAATATCTAAACATCGAAAACTTAA
ATATTATGGAACAAAAACATTGCAAAATATAAAATAAATAAAAAAGGAAAGGAACTTTGAACCTTATGTACCG
AGCAAATGCCAGGTCTAGCAAACATAATGCTAGTCTAGATTACTTATTGATTTAAAAACAAAAAACAAAAA
ATAGTAAATATAAAAACAAATTAATGTTTTATAGACCTGGGAAAAAGAAATTTTCAGCAAAGTACAAAAATTA
AAGCATTCTTTCTTAATTTTGTAAATTCTTTACTGTGGAATAGCTCAGAATGTCAGTTCTGTTTTAAGTAACAG
AATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATCTTGCTTTAATAAAATTCCTTAAACAGTG

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FIGURE 2594

MNPSAPSYPMASLYVGD LHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQQPADAERALDTMNF
VIKGGKPVIMWSQRDP SLRKSGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEA
AERAIEKMNGMLLNDRKVFVGRFKSRKEREAE LGARAKEFTNVYIKNFGEDMDDERLKDLFGPALS VKVMTDESG
KSKGFGFVS FERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFEQMKQDRITRYQGVNLYVKNLDD
GIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPLYVALAQRKEERQAH
TNQYMQRMASVRAPNPVINPYQPAPPSGYFMAAIPQTQNRAAYYPPSQVAQLRPSRWTAQGARP HPPQNMPGA
IRPAAPRPPFSTMRPASSQVPRVMSTQRVANTSTQTMGPRPAAAAAATPAVRTVPQYKYAAGVRNPQQHLNAQP
QVTMQQPAVHVQGGQEPLTASMLASAPPQEQKQMLGERLFPLIQAMHPTLAGKITGMLLEIDNSELHMLESPESL
RSKVDEAVAVLQAHQAKEAAQKAVNSATGVPTV

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FIGURE 2595

GCCATTGCCTTGAGTGAGTGTGCCGCTCTCCAGCCCGTTTGAACGCTCCCCGCAGCCACCGCCACCCATTGGAAT
GGCCAACAGGGGACCTGCATTATGGCCTGAGCCAGGAGGTGCAGCAGAAGATTGAGAAACAGTATGATGCAGATC
TGGAGCAGATCCTGATCCAGTGGATCACCACCCAGTGCCGAAAGGATGTGGGCCGGTCCCAGCCTGGACGCGAGA
ACTTCCAGAACTGGCTCAAGGATGGCACGGTGTATGTGAGCTCATTAAATGCACTGTACCCCAAGGGGCAGGTCC
CAGTAAAGAAGATCCAGGCCTCCACCATGGCCTTCAAGCAGATGGAGAAGATCTCTCAGTTCCTGCAAGCAGCTG
AGCGCTATGGCATTAAACACCACTGACATCTTCCAACTGTGGACCTCTGGGAAGGAAAGACATGGCCTGTGTGC
AGCGGACGCTGAGGAATCTGGGTGGGTGGCAGTAGCCTGGGATGATGGGCTCTTCTCTGGGGATCCCAACTGGT
TCCCTAAGAAATCCAAGGAGAATCCTCGGAACCTTCTCGGATAACCAGCTGCAAGAGGGCAAGAACGTGATCGGGC
TACAGATGGGGGGCATCTCAGGCAGGCATGACTGGCTACTGGATGCCACACCAGATCCTTTGATCCCACCCAGG
CCTTGCCCTGCCCTCCCACGAGTGGTTAATATACATGTAGATATATATTTAGCAGTGACATTCCCAGAGAGCC
CCAGAGCTCTTAAGCTCCCTTCTGTGAGGGTGAGGGGTTGAGCCTGTCTATCACCTCTGAGGTGCCTGTTGGCA
GCCTCTCCCCCGTGCTTACTAATACATTCCCTCCCCATACCCATCAAACTGGACCAACTGGCCTCTTCTTTTC
CCCTGGGATCAAAATTTAGGGGCCTCAGTCCCTCACCGCCATGCCCTGGCCTGTTCTGTCTCTCCTTTTTCCCCC
TGGCCTGTTCTGTCTCTGAGCTCTGTGCCCTCCGTTTCAATCCATGGCTGGGAGTCAGTGATGCTGCCCTCTGCCTT
CTGATGCTGGACTGGCCTTGCTTCTACAAGTATGCTTCTCCCACAGCTGTGGCTGCAGGAACCTTAATTTATAGGG
AGGAGCCTGTGGCAGCTGCTGCCCCAGCCACAGCTGCACTGACTGTGCTCACCACACATCTGGGGCAGCCTTCCC
TGGCAGAGGCCCTCATGGCTTCTCATTTTCCATTCCCTTCACTGTGGCTAAGGGGTGGGGTGAGGGGACGGAGAG
GGAGGGCTGCCTACCATGGTCTGGGGCTTGAGGAAGATGAGTTGTGCGATTTAAGAATTTGTCAATT

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FIGURE 2596

GGACTCCCTTTTCTTTGGCAAGATGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTGGATCGGCATCT
AGTCTTTCCGCTTCTTGAATTTCTCTCTGTAAAGGAGATATATAATGAAAAGGAATTATTACAAGGTAAATTGGA
CCTTCTTAGTGATACCAACATGGTAGACTTTGCTATGGATGTATACAAAAACCTTTATTCTGATGATATTCTCTCA
TGCTTTGAGAGAGAAAAGAACCACAGTGGTTGCACAACAGCTTCAGGCAGAAACAGAACCAATTGTGAA
GATGTTTGAAGATCCAGAACTACAAGGCAAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCTGGC
GGACAAGCATGGTTTTAGGCAGGAATATTTAGATACACTCTACAGATATGCAAAATTCCAGTACGAATGTGGGAA
TTACTCAGGAGCAGCAGAATATCTTTATTTTTTTAGAGTGTCTGGTTCCAGCAACAGATAGAAATGCTTTAAGTTC
ACTCTGGGGAAAGCTGGCCTCTGAAATCTTAATGCAGAATTGGGATGCAGCCATGGAAGACCTTACACGGTTAAA
AGAGACCATAGATAATAATTCTGTGAGTTCTCCACTTCAGTCTCTTCAGCAGAGAACATGGCTCATTCACTGGTC
TCTGTTTGTCTTCAATCACCCCAAAGGTCGCGATAATATTATTGACCTCTTCCTTTATCAGCCACAATATCT
TAATGCAATTCAGACAATGTGTCCACACATTCTTCGCTATTTGACTACAGCAGTCATAACAAACAAGGATGTTTCG
AAAACGTCGGCAGGTTCTAAAAGATCTAGTTAAAGTTATTCAACAGGAGTCTTACACATATAAAGACCCAATTAC
AGAATTTGTTGAATGTTTATATGTTAACTTTGACTTTGATGGGGCTCAGAAAAAGCTGAGGGAATGTGAATCAGT
GCTTGTTGAATGACTTCTTCTGGTGGCTTGTCTTGAGGATTTTCATTGAAAATGCCCGTCTCTTCATATTTGAGAC
TTTCTGTGCGCATCCACCAGTGTATCAGCATTAAACATGTTGGCAGATAAATTGAACATGACTCCAGAAGAAGCTGA
AAGGTGGATTGTAAATTTGATTAGAAATGCAAGACTGGATGCCAAGATTGATTCTAAATTAGGTCATGTGGTTAT
GGGTAACAATGCAGTCTCACCTATCAGCAAGTGATTGAAAAGACCAAAAGCCTTCCTTTAGAAGCCAGATGTT
GGCCATGAATATTGAGAAGAACTTAATCAGAATAGCAGGTGAGAGGCTCCTAACTGGGCAACTCAAGATTCTGG
CTTCTACTGAAGAACCATAAAGAAAAGATGAAAAAAAACCTATCAAAGAAAGATGAAATAATAAACTATTATA
TAAAGGGTGACTTACATTTTGAAACAACATATTACGTATAAATTTGAAGAATTGAATAAAATTGATTCATT
TAAAAAAA

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FIGURE 2597

MAEYDLTTRIAHFLDRHLVFPILLEFLSVKEIYNEKELLQGKLDLLSDTNMVDFAVDVYKNLYSDDIPHALREKRT
TVVAQLKQLQAETEP IVKMFEDPETTRQMSTRDGRMLFDYLADKHGFRQEYLDTLRYAKFQYECGNYSGAAEY
LYFFRVLPATDRNALSSLWGKLASEILMQNWDAAEMDLTRLKETIDNNSVSSPLQSLQQRTWLIHWSLFVFFNH
PKGRDNIIDLFLYQPQYLNAIQTMCPHILRYLTAVITNKDVRKRRQVLKDLVKVIQQESYTYKDPITEFVECLY
VNFDFDGAQKKLRECESVLVNDFFLVACLEDFIENARLFIFETFCRIHQCISINMLADKLNMTPEEAERWIVNLI
RNARLDAKIDSKLGHVVMGNNNAVSPYQQVIEKTKSLSFRSQMLAMNIEKKLNQNSRSEAPNWTQDSGFY

[illegible]

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FIGURE 2599

MASRKEGTGSTATSSSSTAGAAGKGKGGSGDSAVKQVQIDGLVVLKIIKHYYEEGQGTEVVQGVLLGLVVEDR
LEITNCFPPQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSYQHAIEESVVL
IYDPIKTAQGSLSLKAYRLTPKLMEVCCEKDFSEALKKANITFEYMFEEVPIVIKNSHLINVLWWELEKKSABA
DKHELLSLASSNHLGKNLQLLMDRVDEMSQDIVKYNTYMRNTSKQQQKHQYQRRQQENMQRSRGEPPLEED
LSKLFKPPQPPARMDSLIAGQINTYCNKEFTAQNLGKLFMAQALQEYNN

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FIGURE 2600A

AGTGAATCGGAAAGGAGGCGCGGCTGTGGCGGCGGCGGGAGCTGCTCGGAAGCTACACCTCGCAAGGGCTCCCC
CCTTTCCCCACCCCCTCCCCGACCCTTTTCCCTCCCCGGGCCACCCAGCCCGCCCACTCCAGCGGAGAGCA
AGGTTTTCTTCTGTTTTCATAGCCAGCCAGAACAATGTTCTACGCACATTTTGTTCCTCAGTAAAAGAGGGCCTCT
GGCCAAAATTTGGCTAGCGGCCATTGGGATAAGAAGCTAACCAAGCCCATGTGTTTCAGTGTAAATTTAGAGAG
CAGCGTGGAGAGTATCATCTACCAAAGGTGAAAATGGCATTACGGACATCAGGACATCTCTTACTGGGAGTAGT
TCGAATCTATCAGGAAAGCCAAATACCTTCTTGCAGACTGTAATGAAGCATTCAATTAAGATAAAGATGGCTTT
TCGGCCAGGTGTGGTTGACCTGCCTGAGGAAAATCGGGAAGCAGCTTATAATGCCATTACTTTACCTGAAGAATT
TCATGACTTTGATCAGCCACTGCCTGACTTAGATGACATCGATGTGGCCAGCAGTTTCAGCTTGAATCAGAGTAG
AGTGGAAGAGATAACCATGAGAGAAGAAGTTGGGAACATCAGTATTTTACAAGAAAATGATTTTGGTGATTTTGG
AATGGATGATCGTGAGATAATGAGAGAAGGCAGTGCTTTTGGAGATGACGACATGTTAGTAAGCACTACTACTTC
TAACCTCCTATTAGAGTCTGAACAGAGCACCAGCAATCTGAATGAGAAAATTAACCATTTAGAAATATGAAGATCA
ATATAAGGATGATAATTTTGGAGAAGGAAATGATGGTGAAATATTAGATGACAACTTATTAGTAATAATGATGG
CGGTATCTTTGATGATCCCCCTGCCCTCTCTGAGGCAGGGGTGATGTTGCCAGAGCAGCCTGCACATGACGATAT
GGATGAGGATGATAATGTATCAATGGGTGGGCTGATAGTCTGATTGAGTGATCCCGTTGAACCAATGCCAAC
CATGACTGATCAACAACACTTGTTCCAAATGAGGAAGAAGCATTGTCATTGGAGCCTATTGATATAACTGTTAA
AGAAACAAAAGCCAAGAGGAAGAGGAAGCTAATTGTTGACAGTGTCAAAGAGTTGGATAGCAAGACAATTAGAGC
CCAACCTTAGTGATTATTCAGATATTGTTACTACTTTGGATCTGGCACCAGCCACCAAGAAATTGATGATGTGGAA
AGAGACAGGAGGAGTAGAAAACTGTTTTCTTTACCTGCTCAGCCTTTGTGGAATAACAGACTACTGAAGCTCTT
TACACGCTGTCTTACACCGCTTGTAACAGAAGACCTTAGAAAAAGGAGGAAAGGAGGAGAGGCAGATAATTTGGA
TGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCTTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTGATGT
TATCGATGAGCCCATTTATGAAGAGCCAAGCCGCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGA
TGAGTCAGCTATGCCTCCACCACCACCTCAGGGAGTTAAGCGAAAAGCTGGACAAAATTGACCCAGAGCCTGTGAT
GCCTCCTCAGCAGGTAGAGCAGATGGAATACCACCTGTAGAGCTTCCCCAGAAAGACCTCCAAATATCTGTCA
GCTAATACCAGAGTTAGAATCTCTGCCAGAAAAGAGAAGGAGAAAAGAGAAGGAAAAAGAGATGATGAAGAGGA
AGAGGATGAAGATGCATCAGGGGGCGATCAAGATCAGGAAGAAAGAGATGGAAACAAAAGGACTCAGCAGATGCT
TCATGGTCTTCAGCGTGCTCTTGCTAAAACCTGGAGCTGAATCTATCAGTTTGCTTGAGTTATGTCGAAATACGAA
CAGAAAACAGCTGCCGCAAAGTTCTACAGCTTCTTGTTCTTAAAAAGCAGCAAGCTATTGAGCTGACACAGGA
AGAACCGTACAGTGACATCATCGCAACACCTGGACCAAGGTTCCATATTATATAGGAGCTAGAAGCATTATAGC
TAGTGTTTGATTCACTAGTGCTTACAAATTGCCCCCATGTGTAGGGGACACAGAACCCTTTGAGAAAACCTTAGAT
TTTTGTCTGTACAAAGTCTTTGCCTTTTTCTTCTTCAATTTTTTCCAGTACATTAAATTTGTCAATTTTCATCTT
TGAGGGAACTGATTAGATGGGTGTGTTTGTGTTCTGATGGAGAAAACAGCACCCCAAGGACTCAGAAGATGAT
TTTAACAGTTCAGAACAGATGTGTGCAATATTGGTGATGTAATAATGTTGAGTGGCAGTCAAAGTCATGATTT
TTATCTTAGTTCTTCATTACTGCATTGAAAAGGAAAACTGTCTGAGAAAATGCCTGACAGTTTAAATTTAAACT
ATGGTGTAAGTCTTTGACAAGAAAAAAAACAACAAACACTTCTTTCCATCAGTAACACTGGCAATCTTCCTGT
TAACCACTCTCCTTAGGGATGGTATCTGAAACAACAAATGGTCACCCTCTTGAGATTGTTTTAAGTGTAATTTCCA
TAATGAGCAGAGGTGTACGCGAAATTGTGTTATGACTGATAGCCTTCAGCTACAAAAAGATAGGACTGACCTGGT
TTAAAGTGTTCTATTTTGTAAATCATTCCATTTGAGTCTTTCTGATGAACCTGGCTATACTGAAATCTGTTATTT
TAGTGAGGCTCCAAATGAGCAAAGCTAGGCTGATTAGAGTAGAGTGACTATTAAAAACATAACTTTCTAGGA
GCTATAAATCAAAGTTTTAAAAAGATGTTTGGATATATTGAGTATCCGATCATGAAAACAGAAATGGCCCTGC
CTACTACAAGGACAGACTGATGGGAAATTATGCACCTGGTCAACTTAGCTTTTAAGCAGACGATGCTGTAAAAAC
TAACGGCTTCTCTGATATTTATTGTAAGTTTTAGTACTGATCTCCTTTTCCAGTGCTGCACACTCCTGGTTTGG
ACTTTAATAGCGTTGCAACGAAATCCTATATCCAGTTTCTGTAAATTTAATTGAAGAAAAATACATCCAAATAAA
GACTTTATTATTAACAGACCAGATAGCATCAGAAATCATGTGACTGTTATGATTATCAGAATATGCTTAACCTTT
TTAGGGCAAAGTTAACTGAAAGTTCTAGCTTAAGTGTTGAACTTTTGTGGGAAAAAAAATCACTTTTGAAA
CTCAGACTTCAGTGATACCCAATAATTTAAATTTATGTGAAATGTTTTAAATTTGTGAACCTCGTAATTACTGTT
TTAATGATTCAGTTTCTTCAGAGTGGTAATTGTATAAAATTGCTATTGCAGCTTTATATTCAATATGATGTGCCT
GTAAACCAAGGAGTTTTCCCGTTTGTAAGAAAGACATTGTAGATAATTGAATGTTTGATTTTAGAAAGGTCATTA
GTTTCTTGTTACACATTTTGTAGTCTGGTTTTTGTGCTTATCGGGTTAATATTGTTCTTGAAAAATAGTTGAT

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FIGURE 2600B

GCTATGTTATGTATAACTTTTCTAATAAAAGTTGTGTTATAAGCTGT